WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
MONTANA & NORTHERN WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,
and
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, U.S. Geological Survey, National Park Service, State Engineers of Montana and Wyoming and other Federal, State, and private organizations.

AS OF
APR. 1, 1962

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
COLORADO AND STATE OF UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA	MONTHLY (JAN.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE OF MONTANA	MONTHLY (FEB.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1, APR. 1, MAY 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (FEB.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

Copies of these various reports may be secured from:

Head, Water Supply Forecasting Section
Soil Conservation Service
P.O. Box 4170, Portland 8, Oregon

PUBLISHED BY OTHER AGENCIES

REPORTS	ISSUED	AGENCY
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS AND FORESTS, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, SACRAMENTO, CALIF.

FEDERAL-STATE-PRIVATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

MONTANA AND NORTHERN WYOMING
(Upper Missouri and Upper Columbia River Basins)

Report Prepared
By

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Snow Survey Supervisor

and

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Ass't. Snow Survey Supervisor

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Snow Survey Section
Box 855, Bozeman, Montana

Issued By

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State Conservationist
Soil Conservation Service
Bozeman, Montana

R. E. Huffman
Director
Montana Agricultural
Experiment Station
Bozeman, Montana

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MONTANA
WATER SUPPLY OUTLOOK
as of
April 1, 1962

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*                                           *
*  The water supply outlook for the coming  *
*  irrigation season is generally good to   *
*  excellent.                               *
*                                           *
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Snow survey measurements made near the first of April indicate the water stored in the mountain snowpack is very near average. Exceptions are the Kootenai, Sun, Marias, and Teton drainages, where measurements are about 10 percent below average.

Streamflow forecasts for the coming irrigation season are generally near to slightly above the 1943-57 average. West of the Divide, streamflow is expected to be considerably more than last year on the Bitterroot and Upper Clark Fork drainages. The Flathead and Lower Clark Fork drainages are expected to flow slightly more than last year. The Kootenai River is forecast to produce less water than last year.

East of the Divide, streamflow is forecast to be 90 to 125 percent of average. Below average flows are expected in the Jefferson, Marias, and Sun River areas. Above average flows are forecast for the Gallatin and Yellowstone River drainages.

Storage in irrigation reservoirs is generally below average. With near average streamflow forecasts, most reservoirs should fill during spring runoff.

Mountain soil moisture is generally good. Very little priming from the snowpack will be necessary before runoff.

MONTANA
WATER SUPPLY OUTLOOK
as of
April 1, 1962

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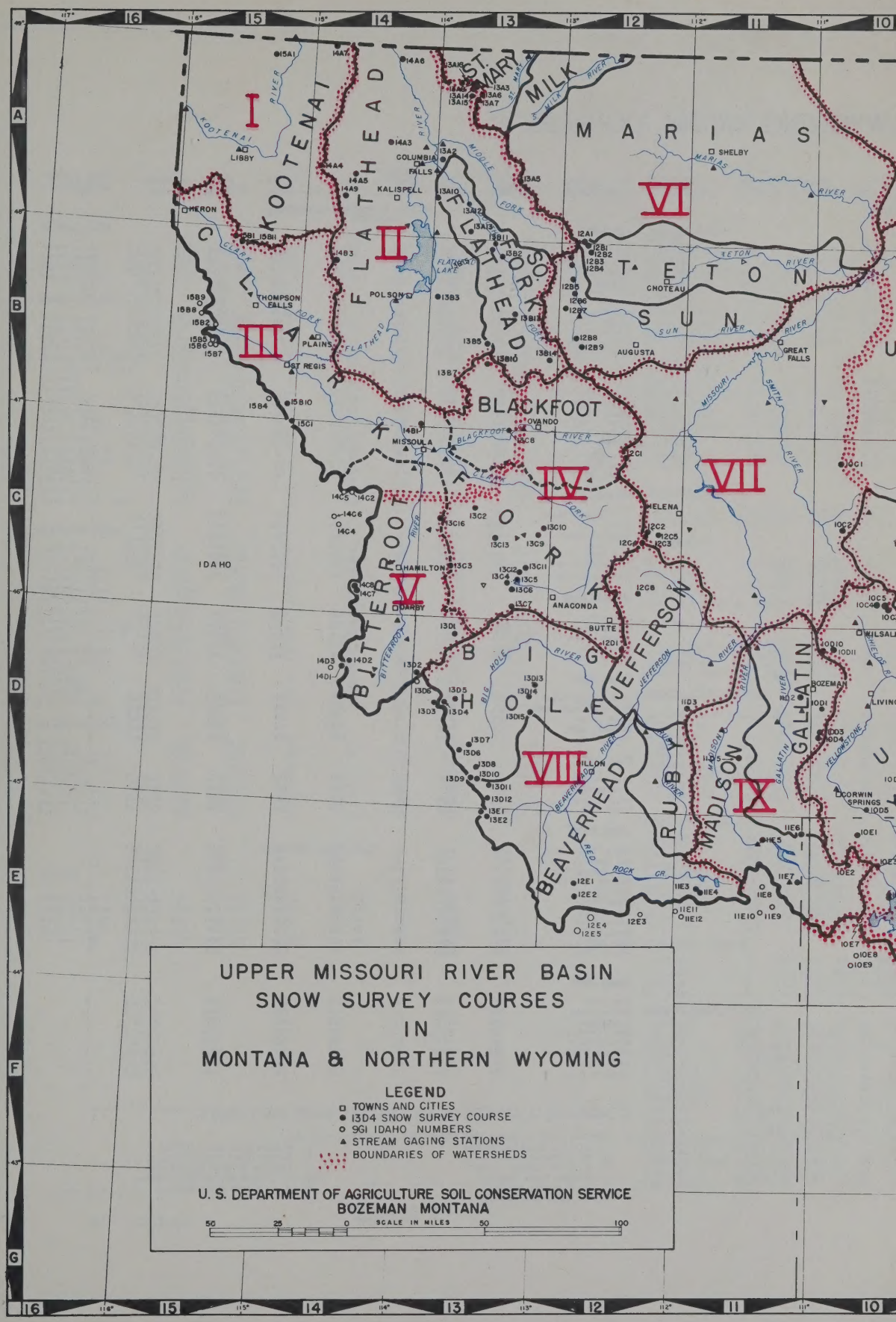
East of the Divide, streamflow is forecast to be 90 to 125 percent of average. Below average flows are expected in the Jefferson, Marias, and Big Horn areas. Above average flows are forecast for the Gallatin and Yellowstone River drainages.

Storage in irrigation reservoirs is generally below average. With near average streamflow April through, most reservoirs should fill during spring runoff.

Mountain soil moisture is generally good. Very little relief from the snowpack will be necessary before runoff.


UPPER MISSOURI RIVER BASIN
SNOW SURVEY COURSES
IN
MONTANA & NORTHERN WYOMING
LEGEND
TOWNS AND CITIES
13D4 SNOW SURVEY COURSE
9G1 IDAHO NUMBERS
STREAM GAGING STATIONS
BOUNDARIES OF WATERSHEDS
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
BOZEMAN MONTANA
SCALE IN MILES
KOOTENAI
FLATHEAD
ST. MARY
MILK
MARIAS
TETON
SUN
CLARK FORK
BLACKFOOT
BITTERROOT
BIG HOLE
JEFFERSON
BEAVERHEAD
RUBY
MADISON
GALLATIN
IDAHO
I
II
III
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IX
KALISPELL
COLUMBIA FALLS
HERON
THOMPSON FALLS
PLAINS
ST REGIS
POLSON
MISSOULA
HAMILTON
DARBY
OVANDO
HELENA
ANACONDA
BUTTE
DILLON
CHOTEAU
AUGUSTA
GREAT FALLS
SHELBY
BOZEMAN
WILSALL
CORWIN SPRINGS
LIBBY

MONTANA
WATER SUPPLY OUTLOOK
as of
April 1, 1952

* *
*
* The water supply outlook for the coming *
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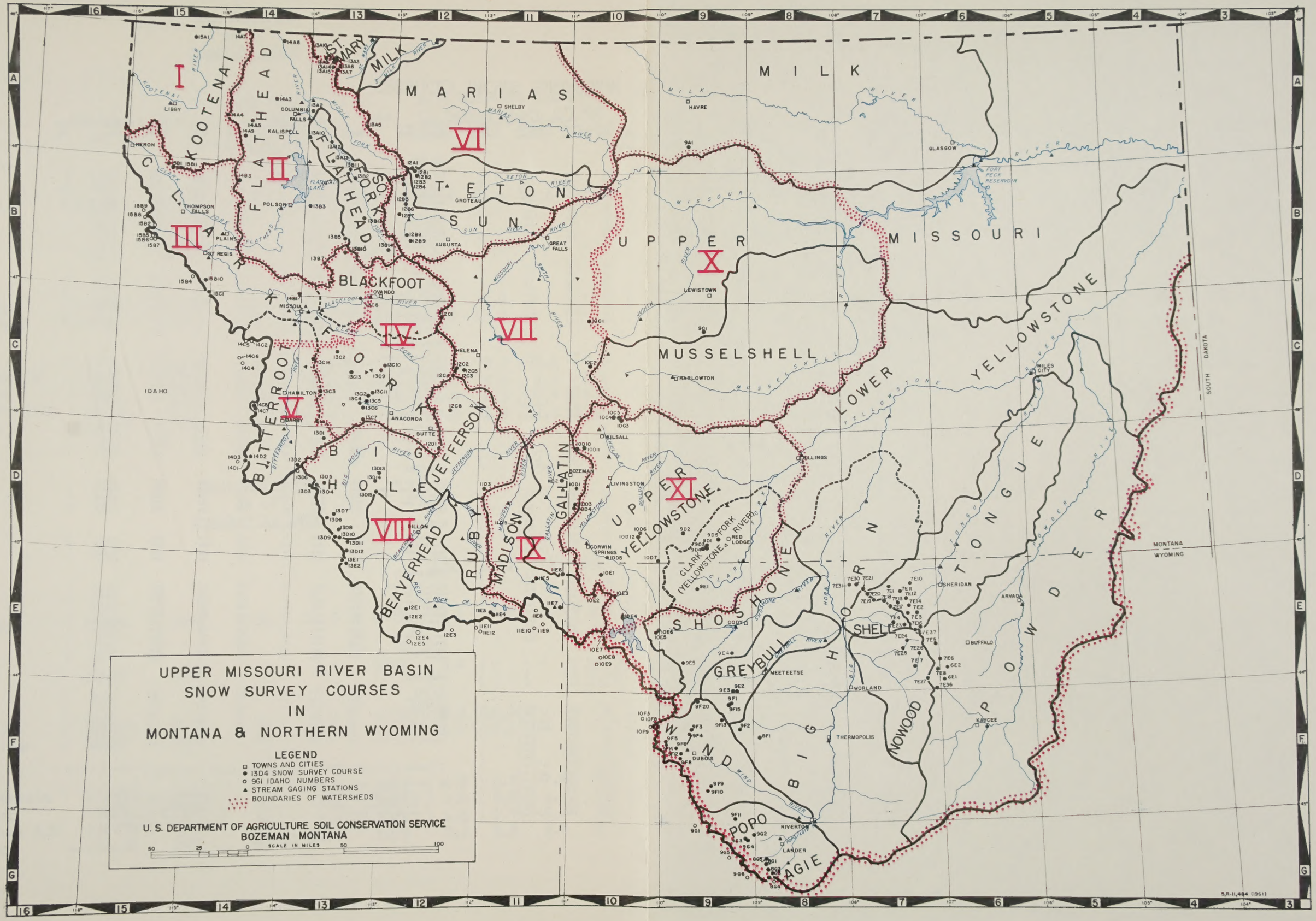
Snow survey measurements made near the first of April indicate the water stored in the mountain snowpack is very near average. Exceptions are the Gallatin, Sun, Marias, and Tongue drainages, where measurements are about 10 percent below average.

Streamflow forecasts for the coming irrigation season are generally near to slightly above the 1943-57 average. West of the Divide, streamflow is expected to be considerably more than last year on the Bitterroot and Upper Clark Fork drainages. The Flathead and Lower Clark Fork drainages are expected to flow slightly more than last year. The Kootenai River is forecast to produce less water than last year.

East of the Divide, streamflow is forecast to be 90 to 125 percent of average. Below average flows are expected in the Jefferson, Marias, and Sun River areas. Above average flows are forecast for the Gallatin and Yellowstone River drainages.

Storage in irrigation reservoirs is generally below average. With near average streamflow increases, most reservoirs should fill during spring runoff.

Mountain soil moisture is generally good. Very little melting from the snowpack will be necessary before runoff.


UPPER MISSOURI RIVER BASIN
SNOW SURVEY COURSES
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STREAM GAGING STATIONS
BOUNDARIES OF WATERSHEDS
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
BOZEMAN MONTANA
SCALE IN MILES
I
II
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VIII
IX
X
XI
KOOTENAI
FLATHEAD
ST. MARY
MILK
MARIAS
TETON
SUN
UPPER MISSOURI
BLACKFOOT
BITTERROOT
BIG HOLE
JEFFERSON
BEAVERHEAD
RUBY
MADISON
GALLATIN
UPPER YELLOWSTONE
CLARK FORK (YELLOWSTONE)
SHOSHONE
GREYBULL
BIG HORN
MUSSELSHELL
LOWER YELLOWSTONE
TONGUE
POWDER
NOWOOD
WIND
POPO AGIE
IDAHO
SOUTH DAKOTA
MONTANA
WYOMING
LIBBY
HERON
KALISPELL
COLUMBIA FALLS
THOMPSON FALLS
PLAINS
ST REGIS
POLSON
MISSOULA
HAMILTON
DARBY
SHELBY
CHOTEAU
AUGUSTA
GREAT FALLS
HAVRE
GLASGOW
FORT PECK RESERVOIR
LEWISTOWN
HARLOWTON
OVANDO
HELENA
ANACONDA
BUTTE
BOZEMAN
WILSALL
LIVINGSTON
CORWIN SPRINGS
RED LODGE
BILLINGS
MILES CITY
SHERIDAN
ARVADA
BUFFALO
CODY
MEETEETSE
WORLAND
THERMOPOLIS
DUBOIS
RIVERTON
LANDER
KAYCEE
ILLON
SMR-11,494 (1961)

MILK
MILK RIVER
HAVRE
GLASGOW
FORT PECK RESERVOIR
MISSOURI RIVER
MISSOURI
PER
LEWISTOWN
MUSSELSHELL
HARLOWTON
MUSSELSHELL RIVER
LOWER YELLOWSTONE
YELLOWSTONE RIVER
MILES CITY
SOUTH DAKOTA
BILLINGS
STONE
CLARK FORK (YELLOWSTONE) RIVER
RED LODGE
CLARK FORK RIVER
SHOSHONE
SHOSHONE RIVER
CODY
HORSE RIVER
TONGUE
TONGUE RIVER
POWDER RIVER
MONTANA
WYOMING
SHERIDAN
ARVADA
BUFFALO
GREYBULL
GREYBULL RIVER
MEETEETSE
BIG HORN
BIG HORN RIVER
WORLAND
SHELL
NOWOOD
POWDER
KAYCEE
THERMOPOLIS
DUBOIS
WIND RIVER
RIVERTON
POPO AGIE
POPO AGIE RIVER
LANDER
5,R-11,464 (1961)

SOIL MOISTURE
as of
April 1, 1962

Drainage Basin and Station	Station No.	Elev.	Soil Profile in Inches Depth	Soil Profile in Inches Cap.	Date	Soil Moisture Content in Inches About 4/1/62 1962	1961	1960	Avg.
GALLATIN									
College Site	11D2M	4856	54	14.5	3/30	11.5	10.9	12.6	10.4
MADISON									
Red Bluff	11D4M	4900	40	4.7	3/24	2.5	1.5	-	-
SHIELDS									
Battle Ridge	10D11M	6020	48	15.4	3/30	14.8	12.6	-	-
Shields River	10C4M	5850	48	20.8	3/30	12.5	13.3	-	-
FLATHEAD									
Desert Mountain	13A2M	5600	54	8.4	3/26	8.0E	7.2	8.6	7.5
Marias Pass	13A5M	5250	54	6.5	3/25	5.5	5.4	5.7	5.4
Spotted Bear R.S.	13B15M	3700	28	6.2	3/28	6.3	6.3	6.5	6.4
Trout Lake	13A12M	3600	54	12.7	3/30	12.8	12.5	12.5	12.4

SOIL MOISTURE
as of
October 1, 1961

						1961	1960	1959	Avg.
GALLATIN									
College Site	11D2M	4856	54	14.5	9/29	9.1	5.8	8.6	5.8
MADISON									
Red Bluff	11D4M	4900	40	4.7	9/22	3.2	-	-	-
SHIELDS									
Battle Ridge	10D11M	6020	48	15.4	9/30	9.3	10.6	-	-
Shields River	10C4M	5850	48	20.8	9/30	8.7	11.5	-	-
FLATHEAD									
Desert Mountain	13A2M	5600	54	8.4	10/5	4.9	4.5	7.2	5.8
Marias Pass	13A5M	5250	54	6.5	9/26	3.6	2.8	4.9	3.8
Spotted Bear R.S.	13B15M	3700	28	6.2	10/5	4.4	0.9	5.2	3.1
Trout Lake	13A12M	3600	54	12.7	10/5	7.8	6.9	9.8	7.7

INDEX TO MONTANA & NORTHERN WYOMING SNOW COURSES

COLUMBIA RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates	Meas. By
KOOTENAI RIVER								
Baree Creek	15B11	5500	6	25N	30W	1937	4,5,5½	2
Brush Creek	14A4	5000	13	30N	26W	1937	3,4,5	1
Red Mountain	15A1	6000	4	36N	29W	1937	3,4,5,5½	1
Weasel Divide	14A7	5450	8	37N	24W	1937	3,4,5,5½	1
FLATHEAD RIVER								
Basin Creek	13B14A	5000	11	19N	12W	1951	2,3,4,5	1
Bassoo Peak	14B3	5150	11	24N	25W	1960	3,4,5	1,5
Big Creek	13B3	6750	7	22N	18W	1941	3,4,5, 6	1,5
Desert Mountain	13A2M	5600	24	31N	19W	1937	1,2,3,4,5	1,2
Griffin Creek Divide	14A9	5150	11	28N	25W	1960	3,4,5	1,5
Hell Roaring Divide	14A3	5770	35	32N	22W	1942	3,4,5	1
Holbrook	13B13A	4530	18	21N	13W	1951	2,3,4,5	1
Kishenehn	14A6	3886	14	37N	22W	1954	3,4	6
Logan Creek	14A5	4300	34	30N	22W	1937	3,4,5	1
Marias Pass	13A5M	5250	34	30N	14W	1934	1,2,3,4,5	3
Mineral Creek	13A16	4000	29	35N	17W	1939	3,4	6
North Fork Jocko	13B7	6330	3	17N	17W	1941	3,4,5, 6	1,5
Quintonkon	13A13	3800	11	26N	17W	1951	4	1,2
Spotted Bear Mt.	13B2	7000	23	25N	15W	1948	1,2,3,4,5	1,2
Strawberry Lake	13A10	6500	11	28N	19W	1948	3,4,5	2
Trinkus Lake	13B1	6500	9	25N	17W	1948	3,4,5	2
Trout Lake	13A12M	3600	21	28N	17W	1948	1,2,3,4,5	1,2
Twin Creeks	13B11	3580	14	26N	16W	1951	3,4,5	1,2
Upper Holland Lake	13B5	7000	28	20N	16W	1948	3,4,5	2
CLARK FORK RIVER								
Black Pine	13C13	7100	23	8N	15W	1959	3,4	1
Coyote Hill	13B10	4200	12	18N	16W	1947	1,2,3,4,5	1,2
El Dorado Mine	13C9	7800	23	8N	12W	1949	3,4	1
Fred Burr Pass	13C11	8000	12	6N	13W	1957	3,4	1
Freezeout Pass	15B10	6800	21	15N	27W	1937	4,5	1,2
Gold Creek Lake	13C10	7200	14	8N	12W	1949	3,4	1
Hoodoo Creek	15C1	6200	9	14N	27W	1937	4,5	1,2
Intergaard	13C4	6450	6	5N	13W	1936	2,3,4	4
Lubrecht Forest #6	13C8	4040	11	13N	14W	1951	1,2,3,4,5	8
Red Lion	13C12	7000	27	6N	13W	1958	3,4	1
Skalkaho Summit	13C3	7259	30	6N	17W	1937	3,4	1
Slide Rock Mt.	13C2	7100	35	10N	16W	1937	3,4	1
Southern Cross	13C5	6500	8	5N	13W	1936	2,3,4	4
Storm Lake	13C7	7780	19	4N	13W	1939	1,2,3,4,5	1
Stuart Mill	13C6	6500	19	5N	13W	1936	2,3,4	4
T.V. Mountain	14B1	6800	33	15N	19W	1956	1,2,3,4,5	1
BITTERROOT RIVER								
Ambrose	13C16	6475	28	9N	18W	1960	3,4,5	1
East Fork R.S.	13D1	5400	16	2N	17W	1937	3,4	1
Gibbons Pass	13D2	7100	4	2S	19W	1934	1,2,3,4,5	1,3
Lolo Pass	14C5	5230	11	10N	24W	1937	3,4,5	1,2
Lost Horse	14C7	5940	5	4N	23W	1960	3,4,5	1
Nez Perce Camp	14D2	5580	19	1S	23W	1937	3,4,5	1
Nez Perce Pass	14D1	6575	25	1S	24W	1937	3,4,5	1
Twin Lakes	14C8	6510	32	5N	23W	1960	3,4,5	1

SASKATCHEWAN RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates	Meas. By
ST. MARY								
Iceberg Lake #3	13A3	5600	34	36N	16W	1922	5	3,9
Josephine Lower #9	13A14	4900	10	35N	16W	1955	5	3,9
Mount Allen #7	13A7	5700	22	35N	16W	1922	5	3,9
Piegan Pass #6	13A6	5500	15	35N	16W	1922	5	3,9
Ptarmigan #8	13A8	5800	32	36N	16W	1937	5	3,9

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MISSOURI RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates	Meas. By
BEAVERHEAD RIVER								
Bloody Dick	13D10	7600	12	8S	16W	1948	3,4	1
Gold Stone	13D9	8100	11	8S	16W	1948	3,4	1
Lakeview Canyon	11E4	6930	26	14S	2W	1948	3,4,5	10
Lakeview Ridge	11E3	7400	27	14S	2W	1948	3,4,5	10
Lemhi Pass	13E1	7480	9	10S	15W	1948	3,4	1
Limekiln	12E2	6950	5	15S	9W	1948	3,4	1
Selway Junction	13D11	6800	27	8S	15W	1948	3,4	1
Terrell Creek	13D12	6650	14	9S	15W	1948	3,4	1
Trail Creek	13E2	7090	15	10S	15W	1948	3,4	1
White Pine Ridge	12E1	8850	18	14S	9W	1948	3,4	1
BIG HOLE RIVER								
Anderson Meadow	13D14	7000	18	3S	12W	1948	3,4	1
Below Big Hole Pass	13D4	6900	24	3S	18W	1948	3,4	1
Big Hole Pass	13D3	7240	28	3S	18W	1948	3,4	1
East Boundary	13D5	6700	22	3S	17W	1948	3,4	1
Elk Horn Springs	13D15	8450	15	4S	12W	1935	3,4,5	3
Jahnke Creek	13D8	7340	25	7S	16W	1948	3,4	1
Miner Forks	13D6	7300	24	6S	17W	1948	3,4	1
Miner Lake	13D7	6720	10	6S	16W	1945	3,4	1
Wise River	13D13	6300	15	2S	12W	1948	3,4	1
JEFFERSON RIVER								
Picnic Grounds	12C6	6500	10	5N	6W	1941	2,3,4	4
Pipestone Pass	12D1	7200	10	1N	7W	1938	1,2,3,4,5	1
MADISON RIVER								
Hebgen Dam	11E5	6550	22	11S	3E	1934	1,2,3,4,5	3
Jack Creek	11D5	7600	13	6S	1E	1961	3,4	1
Norris Basin	10E2	7500	44°44'		110°42'	1936	1,2,3,4,5	6
North Meadow	11D3	7500	23	3S	3W	1961	3,4	1
West Yellowstone	11E7	6700	34	13S	5W	1934	1,2,3,4,5	3
GALLATIN RIVER								
Devil's Slide	10D4	8100	14	5S	6E	1935	2,3,4,5	1
Hood Meadow	10D3	6600	22	4S	6E	1935	2,3,4,5	1
New World	10D1	6700	24	3S	6E	1939	2,3,4	1
Twenty-One Mile	11E6	7150	1	11S	5E	1934	1,2,3,4,5	3
MISSOURI RIVER MAIN STEM								
Chessman Reservoir	12C5	6200	2	8N	5W	1936	1,2,3,4,5	3
Crystal Lake	9C1	6100	19	12N	18E	1941	3,4	1
Grasshopper	10C2	7000	19	9N	8E	1938	3,4	1
Kings Hill	10C1	7950	35	13N	7E	1934	3,4,5	3
Rocky Boy	9A1	5200	15	28N	16E	1941	3,4	7
Stemple Pass	12C1	6900	16	13N	7W	1934	3,4,5	3
Ten Mile Creek L.	12C2	6250	13	8N	6W	1935	1,2,3,4,5	3
Ten Mile Creek M.	13C3	6800	13	8N	6W	1934	1,2,3,4,5	3
Ten Mile Creek, U.	12C4	8000	19	8N	5W	1935	1,2,3,4,5	3
SUN-TETON-MARIAS RIVERS								
Benchmark	12B8	5500	9	20N	10W	1948	3,4	1
Cabin Creek	12B6	5400	33	23N	10W	1949	3,4	1
Five-Bull	12B9	5600	36	20N	10W	1948	3,4	1
Freight Creek	12A1	6000	13	26N	10W	1948	3,4	1
Gates Park	12B5	5300	31	24N	10W	1949	3,4	1
Goat Mountain	12B7	7000	20	22N	10W	1934	3,4	1
Waldron Creek	12B2	5600	16	25N	9W	1948	3,4	1
West Fork	12B1	6000	6	25N	9W	1948	3,4	1
Wrong Creek	12B4	5700	32	25N	10W	1949	3,4	1
Wrong Ridge	12B3	6800	17	25N	10W	1949	3,4	1
MILK RIVER (Canada)								
Cress Day	10AA2	3450	49°-19'		110°-14'-15"	1953	4	9
Cypress Park	9AA1	4000	49°-39'		109°-31'-00"	1953	4	9
Elkwater	10AA1	4100	49°-40'		110°-15'-16"	1953	4	9
Val Marie	7AA1	2700	40°-19'		107°-43'-44"	1953	4	9
UPPER YELLOWSTONE RIVER								
Bald Ridge	10C5	7500	11	4N	10E	1961	3,4,5	1
Camp Senia	9D1	7890	2	8S	18E	1937	3,4,5	1
Canyon	10E3	7750	44°-44'		110°-30'	1938	1,2,3,4,5	6
Cooke City	10D7	7400	25	9S	14E	1937	1,2,3,4,5	6
Crevice Mt.	10D5	8400	22	9S	9E	1935	3,4	2
Gertrude Lake	9D3	9250	10	8S	18E	1961	3,4,5	1
Grizzly Peak	9D5	8400	26	7S	19E	1961	3,4,5	1
Independence	10D6	8000	22	7S	12E	1940	3,4,5	1
Lake Camp	10E4	7850	44°-34'		110°-24'	1936	1,2,3,4,5	6
Lodgepole	9E1	8200	32	56N	106W	1940	2,3,4,5	1,2
Lupine	10E1	7300	44°-54'		110°-37'	1938	1,2,3,4,5	6
Monument Peak	10D12	9000	22	7S	12E	1961	3,4,5	1
Porcupine R.S.	10C3	6500	10	4N	10E	1938	3,4,5	1
Timberline Creek	9D4	8850	10	8S	18E	1961	3,4,5	1
Sacajawea	10D10	6550	36	2N	6E	1960	3,4,5	1
West Rosebud	9D2	7500	10	7S	16E	1960	1,2,3,4,5	4

MISSOURI RIVER BASIN (Continued) (WYOMING)

Drainage Basin & Course Name	Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates	Meas. By
WIND RIVER								
Big Warm	9F12	8800	36	42N	109W	1955	2,3,4,5	1
Burroughs Creek	9F4	8800	15	43N	107W	1948	2,3,4,5	1
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	1,5
Dinwoodie Glaciers	9F17	10500	3	38N	106W	1959	2,3,4	1
Dry Creek	9F9	9500	34	4N	109W	1948	2,3,4,5	1,5
DuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	1
Geyser Creek	9F7	8500	12	41N	108W	1948	2,3,4,5	1
Little Warm	9F8	9500	24	41N	108W	1948	2,3,4,5	1
Sheridan R.S. #2	9F14	7500	3	42N	109W	1955	2,3,4,5	1
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4,5	11
POPO AGIE RIVER								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Bruce's Camp	8G5	6500	24	32N	101W	1955	2,3,4	1
Hobb's Park	9G3	10000	22	2S	3W	1948	2,3,4,5	1,5
Mosquito Park	9G4	9500	23	2S	3W	1940	2,3,4,5	1,5
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
St. Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	1,5
Trout Creek	9G2	8400	5	2S	2W	1948	2,3,4,5	1,5
Twenty Lakes	9G7	10500	2	1S	5W	1959	2,3,4	1
BIG HORN RIVER								
Five-Springs Falls	7E31	7500	19	56N	92W	1956	2,3,4,5	1
Kirwin	9F19	11000	13	45N	104W	1960	2,3,4	1
Medicine Wheel	7E30	9000	24	56N	92W	1956	2,3,4,5	1
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1
Wood River #2	9F15	8000	28	46N	103W	1956	2,3,4,5	1
Timber Creek #2	9E3	8800	25	47N	103W	1955	2,3,4,5	1
Frontier Needle	9F20	10000	20	46N	106W	1961	2,3,4	1
SHOSHONE RIVER								
Carter Mt.	9E4	7800	15	50N	103W	1957	1,2,3,4	1
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	6
Ishawooa Cone	9E5	9200	12	49N	108W	1960	2,3,4	1
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	6
Younts Peak	9F18	8500	28	46N	108W	1960	2,3,4	1
NOWOOD CREEK								
Cold Springs Camp	7E25	8700	1	50N	86W	1956	2,3,4,5	1
Medicine Lodge Lakes	7E24	9500	7	51N	87W	1956	2,3,4,5	1
Onion Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1
Tensleep Lake	7E26	9075	33	50N	86W	1956	2,3,4,5	1
Tyrell R.S.	7E35	8300	30	49N	86W	1956	2,3,4,5	1
SHELL CREEK								
Bald Mountain	7E21	9600	33	56N	91W	1956	2,3,4,5	1
Granite Pass	7E17	8950	19	54N	88W	1956	2,3,4,5	1
Ranger Creek	7E4	8800	32	53N	88W	1935	2,3,4,5	1
Shell Creek	7E23	9600	12	52N	88W	1956	2,3,4,5	1
TONGUE RIVER								
Beaver Tongue Div.	7E20	9200	12	55N	91W	1956	2,3,4,5	1
Big Goose #2	7E32	7700	4	53N	86W	1955	2,3,4,5	1
Bone Springs Div.	7E18	9200	32	55N	89W	1956	2,3,4,5	1
Burgess R.S. #2	7E33	7900	36	56N	89W	1955	2,3,4,5	1
Dome Lake #2	7E34	8800	11	53N	87W	1950	2,3,4,5	1
Gloom Creek	7E14	9300	32	55N	87W	1956	2,3,4,5	1
Sibley Lake	7E11	8000	10	55N	88W	1956	2,3,4,5	1
Sucker Creek	7E12	9000	19	55N	87W	1956	2,3,4,5	1
Steamboat Point	7E10	7500	32	56N	87W	1956	2,3,4,5	1
Wood Rock G.S.	7E13	8500	3	54N	88W	1956	2,3,4,5	1
Geneva Pass	7E37	10600	30	52N	86W	1961	2,3,4,5	1
POWDER RIVER								
Bear Trap	7F1	8000	10	45N	85W	1960	2,3,4,5	1
Canyon Creek	7F2	7400	16	43N	86W	1960	2,3,4,5	1
Clouds Peak	7E36	10000	15	51N	85W	1960	2,3,4	1
Muddy Creek G.S.	6E2	7800	2	48N	84W	1956	2,3,4,5	1
Munkres Pass	7E8	9700	11	48N	85W	1950	2,3,4,5	1
Soldier Park	7E5	8700	36	51N	85W	1950	2,3,4,5	1
Sour Dough	7E6	8500	17	49N	84W	1936	2,3,4,5	1
Tensleep R.S.	7E7	8300	30	49N	86W	1956	2,3,4,5	1

a. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1 and May 1.

b. Numerals refer to Agency that secures the snow survey as follows:

1. Soil Conservation Service
2. U. S. Forest Service
3. U. S. Geological Survey
4. Montana Power Company
5. U. S. Indian Service
6. National Park Service
7. Montana Experiment Station
8. Montana State Forestry School
9. Dominion Water & Power Bureau
10. U. S. Fish and Wildlife Service
11. U. S. Bureau of Reclamation

M - Soil Moisture
A - Aerial Marker

5,R-11,484 - (1961)

SOIL MOISTURE
as of
April 1, 1962

Drainage Basin and Station	Station No.	Elev.	Soil Profile in Inches Depth	Soil Profile in Inches Cap.	Date	Soil Moisture Content in Inches About 4/1/62 1962	1961	1960	Avg.
GALLATIN									
College Site	11D2M	4856	54	14.5	3/30	11.5	10.9	12.6	10.4
MADISON									
Red Bluff	11D4M	4900	40	4.7	3/24	2.5	1.5	-	-
SHIELDS									
Battle Ridge	10D11M	6020	48	15.4	3/30	14.8	12.6	-	-
Shields River	10C4M	5850	48	20.8	3/30	12.5	13.3	-	-
FLATHEAD									
Desert Mountain	13A2M	5600	54	8.4	3/26	8.0E	7.2	8.6	7.5
Marias Pass	13A5M	5250	54	6.5	3/25	5.5	5.4	5.7	5.4
Spotted Bear R.S.	13B15M	3700	28	6.2	3/28	6.3	6.3	6.5	6.4
Trout Lake	13A12M	3600	54	12.7	3/30	12.8	12.5	12.5	12.4

SOIL MOISTURE
as of
October 1, 1961

						1961	1960	1959	Avg.
GALLATIN									
College Site	11D2M	4856	54	14.5	9/29	9.1	5.8	8.6	5.8
MADISON									
Red Bluff	11D4M	4900	40	4.7	9/22	3.2	-	-	-
SHIELDS									
Battle Ridge	10D11M	6020	48	15.4	9/30	9.3	10.6	-	-
Shields River	10C4M	5850	48	20.8	9/30	8.7	11.5	-	-
FLATHEAD									
Desert Mountain	13A2M	5600	54	8.4	10/5	4.9	4.5	7.2	5.8
Marias Pass	13A5M	5250	54	6.5	9/26	3.6	2.8	4.9	3.8
Spotted Bear R.S.	13B15M	3700	28	6.2	10/5	4.4	0.9	5.2	3.1
Trout Lake	13A12M	3600	54	12.7	10/5	7.8	6.9	9.8	7.7

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	COLUMBIA RIVER BASIN					
	KOOTENAI RIVER					
3030	Libby (at)	Apr-Sept	7200	93	8764	7723
		Apr-July	6240	93	7759	6694
3050	Leonia (at)	Apr-Sept	8280	93	10002	8907
		Apr-July	7300	93	8997	7817
	NORTH FORK FLATHEAD RIVER					
3555	Columbia Falls (near)	Apr-Sept	1891	97	2044	1942
		Apr-July	1710	97	1905	1769
		Apr-June	1426	96	1720	1491
	MIDDLE FORK FLATHEAD RIVER					
3585	West Glacier (near)	Apr-Sept	1990	106	1852	1882
		Apr-July	1842	106	1748	1747
		Apr-June	1571	106	1578	1487
	SOUTH FORK FLATHEAD RIVER					
3625	Columbia Falls (at)(17)	Apr-Sept	2520	110	2265	2297
		Apr-July	2405	110	2175	2180
		Apr-June	2084	110	2036	1901
	FLATHEAD RIVER					
3630	Columbia Falls (at)(17)	Apr-Sept	6569	104	6218	6299
		Apr-July	6066	104	5879	5846
		Apr-June	5192	104	5369	4993
3720	Polson (near) (18)	Apr-Sept	7898	105	7456	7463
		Apr-July	7282	105	7044	6939
	SWAN RIVER					
3700	Big Fork (near)	Apr-Sept	728	113	707	641
		Apr-July	644	113	633	568
		Apr-June	517	112	551	460
	BLACKFOOT RIVER					
3400	Bonner (near)	Apr-Sept	1055	106	775	1000
		Apr-July	962	106	705	907
		Apr-June	822	106	636	775
	FLINT CREEK					
3295	Maxville (at)	Apr-Sept	47.0	101	30.2	46.4
		Apr-July	35.3	100	21.4	35.4
	BOULDER CREEK					
3300	Maxville (at)	Apr-Sept	26.5	94	15.2	28.2
		Apr-July	24.4	95	14.0	25.8
	MIDDLE FORK ROCK CREEK					
3320	Philipsburg (near)	Apr-Sept	78.3	98	57.6	80.2
		Apr-July	70.7	98	52.8	72.1

(17) Corrected for storage in Hungry Horse Reservoir.
(18) Corrected for storage in Hungry Horse Reservoir and Flathead Lake.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

as of April 1, 1968

No.	River and forecast point	Forecast (April-July)	Percent of average	Runoff (April-July)	
				Acre feet	Average
	FLORIDA RIVER				
3210	Lanphy (at)	Apr-Jul	92	8[illegible]4	7[illegible]3
		Apr-Jul	2	7[illegible]5	6[illegible]0
3040	Lenora (at)	Apr-Jul	92	1[illegible]	9[illegible]7
		Apr-Jul	97	[illegible]	78[illegible]
	NORTH FORK SPOKANE RIVER				
3925	Spokane falls (nr)	Apr-Jul	97	8[illegible]4	1[illegible]
		Apr-Jul	97	7[illegible]5	1[illegible]
		Apr-Jul	90	1[illegible]3	[illegible]
	WINDER BOX STANDARD RIVER				
3885	West Cliff (near)	Apr-Jul	105	1[illegible]5	2[illegible]
		Apr-Jul	106	1[illegible]	1[illegible]
		Apr-Jul	113	[illegible]	1[illegible]
	LOWER ROCK WALLOWA RIVER				
3625	Columbia falls (at)(17)	Apr-Jul	110	2[illegible]	2[illegible]
		Apr-Jul	110	[illegible]	2[illegible]
		Apr-Jul	114	[illegible]	2[illegible]
	FLATHEAD RIVER				
3640	Polson (at)(18)	Apr-Jul	104	[illegible]	0[illegible]
		Apr-Jul	104	7[illegible]	5[illegible]
		Apr-Jul	104	5[illegible]	4[illegible]
3720	Bigfork (near) (18)	Apr-Jul	105	7[illegible]	0[illegible]
		Apr-Jul	105	[illegible]	0[illegible]
	MAIN STEM				
3900	Big Fork (near)	Apr-Jul	115	7[illegible]	6[illegible]
		Apr-Jul	102	5[illegible]	3[illegible]
		Apr-Jul	112	5[illegible]	3[illegible]
	KOOTENAI RIVER				
3400	Bonner (near)	Apr-Jul	108	[illegible]	1[illegible]
		Apr-Jul	108	7[illegible]	3[illegible]
		Apr-Jul	108	6[illegible]	7[illegible]
	PACKER DAM R				
3040	Meadow (at)	Apr-Jul	101	[illegible]	4[illegible]
		Apr-Jul	100	[illegible]	[illegible]
	MOUNTAIN FORK				
3300	Heavens (at)	Apr-Jul	[illegible]	[illegible]	[illegible]
		Apr-Jul	[illegible]	[illegible]	[illegible]
	MIDDLE FORK SPOKANE				
3320	Plainview (near)	Apr-Jul	98	3[illegible]	8[illegible]
		Apr-Jul	96	[illegible]	[illegible]

(17) Discontinued for storage in Hungry Horse Reservoir.
(18) Corrected for storage in Hungry Horse Reservoir and Flathead Lake.

*Estimated data unavailable at this publication date.

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	CLARK FORK RIVER					
3404	Milltown (above) (14)	Apr-Sept	796	98	478	815
		Apr-July	702	98	404	716
		Apr-June	596	98	356	609
3405	Missoula (above)	Apr-Sept	1851	102	1251	1814
		Apr-July	1664	102	1110	1620
		Apr-June	1418	102	992	1384
3530	Missoula (below)	Apr-Sept	3437	102	2360	3361
		Apr-July	3143	103	2142	3059
		Apr-June	2693	103	1970	2608
3545	St. Regis (at)	Apr-Sept	4700	103	3454	4549
		Apr-July	4280	103	3148	4140
		Apr-June	3652	103	2873	3550
3890	Plains (near) (18)	Apr-Sept	12930	104	11362	12337
		Apr-July	11760	104	10600	11316
		Apr-June	10080	104	9677	9625
3920	Whitehorse Rapids (at) (18)	Apr-Sept	14502	104		13932
		Apr-July	13321	104		12763
		Apr-June	11272	104		10816
	WEST FORK BITTERROOT RIVER					
3425	Conner (near) (15)	Apr-Sept	177	100	-	176
		Apr-July	163	100	-	164
	BITTERROOT RIVER					
3440	Darby (near)	Apr-Sept	583	100	402	587
		Apr-July	544	100	366	547
		Apr-June	478	100	339	477
3528	Missoula (near) (16)	Apr-Sept	1586	102	1109	1557
		Apr-July	1479	102	1032	1450
		Apr-June	1275	102	978	1244
	BLODGETT CREEK					
3475	Corvallis (near)	Apr-Sept	46.6	100	38.5	46.7
		Apr-July	44.5	100	37.1	44.4
	BURNT FORK CREEK					
3510	Stevensville (near)	Apr-Sept	29.8	95	20.9	31.2
		Apr-July	26.5	95	18.7	28.0

(14) Difference in observed flow, Clark Fork above Missoula and Blackfoot at Bonner.
(15) Corrected for storage in West Fork Bitterroot River Reservoir.
(16) Difference in observed flow, Clark Fork above and below Missoula.
(18) Corrected for storage in Hungry Horse Reservoir and Flathead Lake.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre-Feet)

Key	River and Forecast Point	Forecast Period	Forecast Average	Percent Normal	Reservoir Pool Elevation	Reservoir Pool Storage
	CLEAR FORK BRAZOS					
3404	Millican (above) (1a)	Apr-Sep	75%	98	477	2-3
		Apr-July	75%	98	476	2-3
		Jan-Dec	80%	98	484	2-3
3420	Nimrod (above)	Apr-Sep	1841	105	1597	16-4
		Apr-July	1841	105	1110	14-20
		Jan-Dec	1434	105	993	13-14
3430	Morris (below)	Apr-Sep	3437	102	2580	5-61
		Apr-July	3143	102	2-4	4-19
		Apr-Dec	2831	102	2575	4-04
3440	Dry Creek (above)	Apr-Sep	1780	103	3-4	4520
		Apr-July	1780	103	3143	4140
		Apr-Dec	1505	103	3275	3-3
3500	Flat Top (above) (1b)	Apr-Sep	2-30	105	1-1	1-3
		Apr-July	2116	104	1040	1-1-4
		Apr-Dec	1620	104	9471	9-23
3500	Weatherford Dodge (Dam Site)	Apr-Sep	1-30	104		1-3-2
		Apr-July	1-23	104		1-3-3
		Apr-Dec	1-17	104		1-0-0
	WEST FORK TRINITY RIVER					
3525	Dallas (Mesquite) (1b)	Apr-Sep	477	100	-	3-4
		Apr-July	420	100	-	3-4
	ELM FORK & BYNUM					
3540	Bynum (above)	Apr-Sep	3-3	100	402	4-7
		Apr-July	344	100	3-4	3-7
		Apr-Dec	4-5	100	3-0	4-7
3545	Waxahachie (Ennis) (1b)	Apr-Sep	3-4	100	4-4	2-7
		Apr-July	347	100	2-2	4-4
		Apr-Dec	1-0	100	3-4	1-3
	BRAZOS RIVER					
3575	Jacksboro (above)	Apr-Sep	3-3	100	34-3	4-7
		Apr-July	4-2	100	3-1	4-4
	BRAZOS RIVER					
3594	Graham-Ville (above)	Apr-Sep	4-4	95	20-3	1-3
		Apr-July	4-3	95	18-7	8-0

(1a) Difference in [illegible] flow, Bluff Dale Dam and Nimrod and Morris Reservoirs.
(1b) Discovered for storage in West Fork Trinity Reservoir Dallas measurements.
(1c) Difference in observed flow, Glade Park above and below Nimrod.
(1d) Discovered for storage in Lake Bryan Brown Reservoir and Thurman Lake.

Prepared as a Supplement to Soil Conservation Service

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	MISSOURI RIVER BASIN					
	RED ROCK RIVER					
0110	Kennedy Ranch (at)	May-Sept	58.2	106	20.4	54.9
		May-July	52.2	106	17.0	49.1
0125	Monida (near) (1)	Apr-Sept	91.1	105	35.4	86.4
		Apr-July	86.5	105	28.2	82.2
	BIG HOLE RIVER					
0255	Melrose (near)	Apr-Sept	689	90	397	770
		Apr-July	638	90	367	714
	BOULDER RIVER					
0330	Boulder (near)	Apr-Sept	79.6	100	46.0	79.9
		Apr-July	76.1	99	43.9	76.5
	JEFFERSON RIVER					
0345	Sappington (at)	Apr-Sept	983	91	472	1074
		Apr-July	872	91	421	958
	MADISON RIVER					
0375	West Yellowstone (near)	Apr-Sept	233	108	168	216
		Apr-July	177	107	123	165
0385	Grayling (near) (2)	Apr-Sept	487	109	329	448
		Apr-July	397	111	241	357
0410	McAllister (near) (3)	Apr-Sept	807	105	513	756
		Apr-July	668	108	383	613
	GALLATIN RIVER					
0435	Gateway (near)	Apr-Sept	552	120	331	459
		Apr-July	490	120	267	395
	EAST GALLATIN RIVER					
0480	Bozeman (at)	Apr-Sept	53.2	115	20.9	46.4
		Apr-July	46.7	115	16.7	40.7
	HYALITE CREEK					
0500	Hyalite R.S. (at) (4)	Apr-Sept	41.1	114	24.2	36.1
		Apr-July	35.3	114	20.6	31.0
	GALLATIN RIVER					
0525	Logan (at)	Apr-Sept	624	127	230	492
		Apr-July	537	127	164	422

(1) Corrected for storage in Lima Reservoir.
(2) Corrected for storage in Hebgen Lake.
(3) Corrected for storage in Hebgen and Ennis Lakes.
(4) Corrected for storage in Middle Creek Reservoir.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF JANUARY 1, 1952

(1000 ACRE-FEET)

NO.	RIVER AND PROBABILITY POINT	FORECASTS: PRESENT YEAR	FORECASTS: NEXT YEAR	PERCENT AVERAGE	MEASURED FLOW: LAST YEAR	MEASURED FLOW: AVERAGE
	WILLAMETTE RIVER BASIN					
	EAST BACK RIVER					
C110	Hanscomb Ranch (est)	May-June	24.4	106	22.4	[illegible]
		June-July	22.3	106	17.0	19.[illegible]
C245	Hoskins (coast) (1)	Apr-June	71.1	106	96.4	95.[illegible]
		Apr-July	85.5	105	99.2	105.[illegible]
	BIG RIVER BASIN					
C245	Marion (coast)	Apr-June	6.8	90	9.7	7.[illegible]
		Apr-July	6.4	90	9.7	7.[illegible]
	ROGUE RIVER					
C120	Medford (coast)	Apr-June	79.4	100	60.0	73.9
		Apr-July	74.1	90	63.6	7[illegible].2
	UMPQUA RIVER					
C245	Sawyers Ck (est)	Apr-June	9.7	93	7.2	8.[illegible]
		Apr-July	9.[illegible]	93	8.1	[illegible]
	MIDDLE RIVER					
C275	Eden Valley (coast)	Apr-June	2.1	108	1.6	2.[illegible]
		Apr-July	1.7	107	1.3	1.3
C125	Cheatham (coast) (2)	Apr-June	4.7	109	3.9	4.[illegible]
		Apr-July	3.7	111	2.1	3.7
C110	Scaldwater (coast) (2)	Apr-June	6.7	106	5.1	7.0
		Apr-July	6.6	106	3.5	6.3
	CLACKAMAS RIVER					
C139	Estacada (coast)	Apr-June	5.2	120	1.5	4.0
		Apr-July	6.0	120	2.0	5.5
	EAST CLACKAMAS RIVER					
C120	Boyleston (est)	Apr-June	2.1	112	2.1	2.[illegible]
		Apr-July	4.7	115	3.7	4.7
	HUNTLEY RIVER					
C120	Huntley B.S. (est) (est)	Apr-June	1.1	114	1.2	2.[illegible]
		Apr-July	1.3	114	1.6	2.0
	SANDY RIVER					
C120	Vogel (est)	Apr-June	1.4	127	1.2	1.[illegible]
		Apr-July	1.7	127	1.4	1.[illegible]

(1) Corrected for storage in Elder Basin (Vogel).
(2) Corrected for storage in Hanson Lake.
(3) Corrected for storage in Hobson and Estacada Lakes.
(4) Corrected for storage in Hunting and Scoggins Reservoirs.

*Monthly data published by Jan. [illegible]

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	MISSOURI RIVER					
0545	Toston (at) (3)	Apr-Sept	2455	105	1102	2342
		Apr-July	2119	105	886	2030
0908	Fort Benton (at) (5)	Apr-Sept	3686	100		3599
		Apr-July	3095	100		3076
1095	Virgelle (at) (6)	Apr-Sept	4362	99		4393
		Apr-July	3720	98		3803
1150	Zortman (near) (6)	Apr-Sept	4710	98		4806
		Apr-July	4085	98		4143
1320	Fort Peck Dam (below)(7)	Apr-Sept	4658	98		4761
		Apr-July	4098	98		4181
1770	Wolf Point (near) (7)	Apr-Sept	5085	97		5261
		Apr-July	4478	97		4652
3300	Williston, N.D. (near)(8)	Apr-Sept	12712	102	4475	12562
		Apr-July	11172	101	3715	11101
	PRICKLY PEAR CREEK					
0615	Clancy (near)	Apr-Sept	19.9	83	9.7	23.9
		Apr-July	17.5	84	8.4	20.8
	NORTH FORK SUN RIVER					
0785	Augusta (near)	Apr-Sept	225	94		239
		Apr-July	203	92		222
	SUN RIVER					
0786	Gibson Dam (at) (10)	Apr-Sept	557	95	474	588
		Apr-July	510	95	440	538
	MARIAS RIVER					
0995	Shelby (near)	Apr-Sept	585	89	390	659
		Apr-July	557	89	368	605
	SOUTH FORK MUSSELSHELL RIVER					
1185	Martinsdale (above)	Apr-Sept	57.0	106	10.7	53.6
		Apr-July	54.7	106	10.3	51.4
	MUSSELSHELL RIVER					
1205	Harlowton (at) (9)	Apr-Sept	85.5	103	-	83.0
		Apr-July	84.5	103	-	82.0

(3) Corrected for storage in Hebgen and Ennis Lakes.
(5) Corrected for storage in Canyon Ferry Reservoir.
(6) Corrected for storage in Canyon Ferry and Tiber Reservoirs.
(7) Corrected for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
(8) Corrected for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill and Boysen Reservoirs.
(9) Corrected for storage in Durand and Martinsdale Reservoirs.
(10) Corrected for storage in Gibson Reservoir and diversions.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1968

No.	Utility and company name	Forecasts (MGD)	Probability (Pct. time)	Probable (MGD)	Year 1968	Year 1970
	MISSOURI RIVER					
0045	Omaha (Ia) (1)	Apr-Sept	50%	105	122[illegible]	[illegible]
		Apr-Mar	75%	105	1[illegible]	1[illegible]
0064	Fort Randall (SD) (2)	Apr-Sept	[illegible]	100		[illegible]
		Apr-Mar	[illegible]	100		[illegible]
2005	Vermillion (Ia) (3)	Apr-Sept	[illegible]	77		[illegible]
		Apr-Mar	72[illegible]	72		[illegible]
2150	Yankton (Neb) (4)	Apr-Sept	4710	75		[illegible]
		Apr-Mar	[illegible]	75		[illegible]
1720	Fort Pierre Sys (Oahe) (5)	Apr-Sept	4[illegible]	98		[illegible]
		Apr-Mar	4[illegible]	93		4[illegible]
1770	Mobridge Sys (Oahe) (6)	Apr-Sept	[illegible]	97		[illegible]
		Apr-Mar	4[illegible]	97		[illegible]
1920	Wessington Sprs. (Oahe)(6)	Apr-Sept	12[illegible]	105	4[illegible]	1[illegible]
		Apr-Mar	11[illegible]	104	[illegible]	11[illegible]
	MISSOURI RIVER BASIN					
0015	Cheyenne (Neb)	Apr-Sept	1[illegible]	83	[illegible]	[illegible]
		Apr-Mar	1[illegible]	84	[illegible]	[illegible]
	NORTH PLATT SUB BASIN					
0090	Douglas (Neb)	Apr-Sept	[illegible]	94		[illegible]
		Apr-Mar	[illegible]	93		[illegible]
	BOX BUTTE					
0084	Alliance Sys (Neb) (10)	Apr-Sept	5[illegible]	95	4[illegible]	[illegible]
		Apr-Mar	[illegible]	95	4[illegible]	[illegible]
	MIDDLE RIVER					
0095	Lemmon (Sd)	Apr-Sept	[illegible]	89	[illegible]	[illegible]
		Apr-Mar	[illegible]	89	[illegible]	[illegible]
	SOUTH TYNE WATERSHED AREA					
1180	Kittanning (Penna)	Apr-Sept	[illegible]	1[illegible]	1[illegible]	[illegible]
		Apr-Mar	[illegible]	1[illegible]	1[illegible]	[illegible]
	WOOD-CONNELL SYSTEM					
1300	Fox [illegible] (2)	Apr-Sept	[illegible]	1[illegible]	—	[illegible]
		Apr-Mar	[illegible]	101	—	[illegible]

(1) Contracted for storage in Gavins and Yankton Lakes.
(2) Contracted for storage in Cannon Valley Reservoir.
(3) Contracted for storage in Gavins Point and Ponca Reservoirs.
(4) Contracted for storage in Gavins Point, Ponca and Fort Randall Reservoirs.
(5) Contracted for storage in Oahe Reservoir, Cabot, Fort Hook, Medicine Butte and Bryant Reservoirs.
(6) Contracted for storage in Oahe Reservoir.
(9) Contracted for storage in Pierre and Mobridge Reservoirs.
(10) Contracted for storage in Gibbons Reservoir and elsewhere.

Footnotes: data provided by [illegible]

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1962

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	YELLOWSTONE RIVER					
1915	Corwin Springs (at)	Apr-Sept	2236	113	1358	1980
		Apr-July	1851	112	1129	1649
1925	Livingston (at)	Apr-Sept	2525	112	1440	2252
		Apr-July	2075	111	1186	1863
2145	Billings (at)	Apr-Sept	4730	111	2380	4261
		Apr-July	4050	111	1957	3657
3090	Miles City (at) (12)	Apr-Sept	7125	106	3097	6721
		Apr-July	6215	106	2571	5883
3295	Sidney (at) (12)	Apr-Sept	7202	105	2873	6921
		Apr-July	6400	104	2447	6137
	SHIELDS RIVER					
1935	Clyde Park (at)	Apr-Sept	132	119	36.1	111
		Apr-July	122	119	34.3	103
	ROSEBUD CREEK					
2045	Absarokee (near) (11)	Apr-Sept	294	110	146	267
		Apr-July	235	110	106	216
	STILLWATER RIVER					
2050	Absarokee (near) (11)	Apr-Sept	684	110	355	620
		Apr-July	575	110	281	523
	CLARKS FORK RIVER					
2075	Chance (at)	Apr-Sept	600	98	442	617
		Apr-July	543	98	396	552
2085	Edgar (at)	Apr-Sept	628	97	449	652
		Apr-July	561	97	378	575
	ROCK CREEK					
2095	Red Lodge (near)	Apr-Sept	133	118	77.6	112
		Apr-July	102	118	58.0	86.3
2250	BULL LAKE CREEK					
	Lenore (near) (14)	Apr-Sept	192	113	-	170
2320	NORTH POPO AGIE RIVER					
	Milford (near)	Apr-Sept	92	124	57	74
2330	LITTLE POPO AGIE RIVER					
	Lander (near)	Apr-Sept	56	137	-	43
2185	WIND RIVER					
	Dubois (at)	Apr-Sept	106	106	-	100
2820	SHOSHONE RIVER					
	Buffalo Bill Dam (below)(13)	Apr-Sept	850	100	-	851

(11) Corrected for storage in Mystic Lake.
(12) Corrected for storage in Buffalo Bill and Boysen Reservoirs.
(13) Corrected for storage in Buffalo Bill Reservoir and Heart Mountain diversion.
(14) Corrected for storage in Bull Lake Reservoir.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

As of April 1, 1962

(from Acre Feet)

No.	Water Use Center Point	Median	Median* Min Year	Median* Average	Median Plus Normal Year	Median Plus Average
	(MALEBOROUGH RIVER)					
1015	Corona Springs (at)	Apr-Sept	4230	723	1394	1590
		Apr-July	1042	444	1134	1429
1024	Latrobe (at)	Apr-Sept	2525	114	1420	2223
		Apr-July	2075	113	1188	1[illegible]
2015	Blairsville (at)	Apr-Sept	4750	111	[illegible]	[illegible]
		Apr-July	4050	101	1351	2657
2040	Mills City (at) (12)	Apr-Sept	7125	106	2027	[illegible]
		Apr-July	6215	108	2571	[illegible]
2095	Slippery Rock (at) (12)	Apr-Sept	7725	105	3071	[illegible]
		Apr-July	6400	105	2447	[illegible]
	(BEAVER RIVER)					
1032	Ohio Bank (at)	Apr-Sept	137	113	74.1	[illegible]
		Apr-July	125	118	34.7	[illegible]
	(MONONGAHELA RIVER)					
2045	Waynesburg (Dam) (14)	Apr-Sept	2[illegible]	114	144	[illegible]
		Apr-July	2[illegible]	110	1[illegible]	[illegible]
	(KISKIMINETAS RIVER)					
2020	Apollo (Dam) (12)	Apr-Sept	4[illegible]	110	2[illegible]	620
		Apr-July	3[illegible]	110	[illegible]	5[illegible]
	(LITTLE YOUGHIOGHENY RIVER)					
2075	Connellsville (at)	Apr-Sept	800	91	122	117
		Apr-July	627	96	390	322
2085	Ohiopyle (at)	Apr-Sept	620	97	429	[illegible]
		Apr-July	501	97	378	273
	(MAHONING RIVER)					
2095	New Castle (Dam)	Apr-Sept	232	112	77.4	44[illegible]
		Apr-July	205	110	50.0	[illegible]
2220	(BLACK LICK CREEK)					
	Homer (Dam) (12)	Apr-Sept	102	111	-	47[illegible]
2320	(MERRY ZOOD WITH WIRRA)					
	Marion (Dam)	Apr-Sept	52	124	37	74
2330	(LITTLE NORTH FORK BIRCH)					
	Hooker (Dam)	Apr-Sept	52	137	-	4[illegible]
2165	(WEST BRANCH)					
	Pymatuning (at)	Apr-Sept	370	106	-	120
2520	(MONONGAHELA RIVER)					
	Buffalo Mill Dam (Dam)(12)	Apr-Sept	350	100	-	401

(12) Dam-site or storage in Allegheny National Forest.
(13) Conserved for storage in Buffalo Mill and Bowman Reservoirs.
(14) Conserved for storage in Quindaro Mill Reservoir and Dunkard Mountain diversion.
(15) Conserved for storage in Pell Lake Reservoir.

*Probabilities are computed on a monthly basis.

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
	COLUMBIA RIVER BASIN						
Kootenai River							
15B11	Baree Creek	5500	3/30	125	51.2	52.1	48.7*
14A4	Brush Creek	5000	3/20	38	10.7	12.2	15.2*
Can 10	Fernie	3500	3/30	25	9.6	8.3	9.3
Can 12A	Field	4200	3/30	19	5.5	5.2	5.2
Can 43	Gray Creek	5100	3/31	61	18.7	22.1	19.8*
Can 33	Kicking Horse	5400	3/30	47	12.8	15.1	14.9*
Can 20B	Kimberley	3800	3/31	22	7.3	9.3	6.8
Can 32	Marble Canyon	5000	4/1	53	9.0	11.3	13.9*
Can 10A	New Fernie	4100	3/30	50	15.4	16.5	15.4*
15A1	Red Mountain	6000	3/22	52	15.8	22.9	21.5
Can 8A	Sinclair Pass	4500	4/1	17	3.8	4.8	6.0
Can 20A	Sullivan Mine	5100	3/30	44	11.5	16.7	15.4*
Can 41	Upper Elk River	4400	3/30	15	6.4	8.5	8.3*
14A7	Weasel Divide	5450	3/20	88	30.6	38.6	33.4
Flathead River							
13B14A	Basin Creek	5000	3/29	38	10.7	8.8	10.5*
14B3	Bassoo Peak	5150	3/27	43	13.6	7.9	-
13B3	Big Creek	6750	3/29	127	49.2	45.2	43.4
13A17	Camp Misery	6400	3/23	112	38.7	-	-
13A2M	Desert Mountain	5600	3/26	57	17.0	14.1	16.6
13B4	Fatty Creek	5500	3/30	70	22.8	-	-
14A9	Griffin Creek Divide	5150	4/2	43	14.4	8.9	-
14A3	Hell Roaring Divide	5770	4/3	82	30.0	32.6	31.7
13B13A	Holbrook	4530	3/29	37	11.4	7.0	10.1*
14A6	Kishenehn	3886	3/29	32	9.4	6.1	10.8
14A5	Logan Creek	4300	3/20	36	9.4	6.2	9.8
13A5M	Marias Pass	5250	3/27	56	18.1	15.6	20.3
13A16	Mineral Creek	4000	4/2	50	15.2	17.2	23.9
13B7	North Fork Jocko	6330	3/30	119	49.3	44.4	44.4
13A13	Quintonkon	3800	3/28	48	15.6	9.9	14.8*
13B2	Spotted Bear Mountain	7000	3/29	53	16.2	12.6	15.6*
13A10	Strawberry Lake	6500	3/29	106	39.2	42.5	42.5*
13B1	Trinkus Lake	6500	3/29	118	42.2	42.0	41.5*
13A12M	Trout Lake	3600	3/30	43	15.6	7.0	16.4*
13B11	Twin Creeks	3580	3/30	37	12.0	7.0	10.6*
13B5	Upper Holland Lake	7000	3/29	102	38.0	29.4	34.3*

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1992

Basin Number	Basin Name	Elevation	Date of Survey	Snow Depth	Water Content	Last Year	Average
	COLUMBIA RIVER BASIN						
	Columbia River						
1SM11	Marys Creek	[illegible]	3/30	125	31.5	52.3	43.7*
1A44	Brush Creek	5160	3/20	35	10.7	12.2	15.2*
2A10	Ferris	3500	3/30	55	7.6	8.3	9.4
2A12	Field	[illegible]	3/31	29	8.5	5.8	5.6
2A17	Grey Creek	5120	3/31	61	18.7	22.1	17.2*
2A31	Kicking Horse	5400	3/30	47	17.8	15.1	14.3*
2A32	Kinbasket	2700	3/31	22	7.3	9.3	6.8
2A39	Marble Canyon	5000	4/1	45	9.0	11.7	13.4*
2A40	New Denver	4100	3/31	50	15.3	16.3	15.4*
2A51	Red Mountain	5300	3/31	55	19.8	22.9	21.3
2A54	Sinclair Pass	4500	4/1	17	3.8	4.8	4.0
2A61	Twelve Mile	4300	3/31	[illegible]	11.8	16.7	15.4*
2A62	Upper Kootenay	4100	3/31	15	6.4	8.3	6.3*
3A47	Wood Siding	2400	3/20	88	30.8	38.8	27.4
	Columbia River						
1SM12A	Beaver Creek	5500	3/29	20	12.7	8.8	10.4*
1SM3	Seebaugh Flat	4150	3/27	[illegible]	13.6	7.7	-
1SM5	Big Creek	6000	3/30	147	49.1	47.7	43.7*
1SM17	Camp Misery	5400	3/23	123	39.7	-	-
1SM40	Beaver Meadows	5200	3/31	57	17.0	14.3	19.0
1SM4	Lake Creek	5500	3/30	70	24.7	-	-
1A49	Griffin Creek Site	5140	4/1	43	14.4	8.8	-
1A43	Hall Ranch Site	5000	4/3	43	22.4	32.6	31.7
1SM31A	Kootenay	4500	3/31	27	11.4	7.0	10.3*
1A45	Kootenay	[illegible]	3/30	[illegible]	8.8	6.1	14.8*
1A46	Lagoon Creek	[illegible]	3/30	30	9.4	6.3	7.8
1A48	Morrison Ranch	[illegible]	3/27	30	15.1	22.0	20.3*
1A40	Mineral Creek	[illegible]	[illegible]	50	19.3	27.2	21.9
1SM7	Moyie Lake Dam	[illegible]	3/30	129	45.5	44.4	44.4
1A41	Quartzburg	5000	3/30	43	19.6	8.0	14.8*
1SM6	Quartzite Bear Mountain	7000	3/30	31	15.2	12.1	15.4*
1A42B	Riverside Lake	4500	3/30	105	39.2	42.7	42.5*
1SM8	Tuchuck Lake	4800	3/30	125	42.5	42.0	41.4*
1A43A	Grassy Lake	3600	3/30	44	12.6	7.6	13.4*
1SM32	Yahk Creek	3500	3/30	37	12.0	7.0	7.4*
1A50	Upper Yahk Lake	3500	3/30	102	38.0	37.4	34.3*

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
Clark Fork River							
13C13	Black Pine	7100	3/27	44	13.6	10.1	-
12B10	Copper Creek	5700	3/21	53	16.8	-	-
12B11	Cotter Mine	6250	3/21	56	18.4	-	-
13B10	Coyote Hill	4200	3/28	39	13.0	6.5	10.6*
13C9	El Dorado Mine	7800	3/26	66	22.6	15.0	22.7*
15C2	Fish Lake Airstrip	5000	3/30	103	40.4	39.3	42.6*
13C11	Fred Burr Pass	8000	3/29	82	24.7	20.0	27.0*
15B10	Freezeout Summit	6800	Discontinued			36.9	36.8
13C10	Gold Creek Lake	7200	3/26	53	16.6	11.5	17.2*
15C1	Hoodoo Creek	6200	4/2	131	50.7	51.8	53.2
13C4	Intergaard	6450	4/2	38	10.4	6.6	7.9*
15B2	Lookout	5250	3/27	122	42.8	37.3	39.0*
13C8	Lubrecht Forest #6	4040	3/31	19	6.4	0	2.5*
13C12	Red Lion	7000	3/29	64	16.8	12.0	18.0*
13C3	Skalkaho Summit	7259	3/27	76	26.6	23.3	27.1
13C2	Slide Rock Mountain	7100	3/28	54	16.7	11.0	15.9
13C5	Southern Cross	6500	4/2	30	9.5	5.0	5.9*
13C7	Storm Lake	7780	3/29	57	15.7	11.2	15.6
13C6	Stuart Mill	6500	4/2	30	9.0	4.8	6.9*
13C1	Stuart Mountain	7400	3/31	84	32.5	-	32.8
14B1	TV Mountain	6800	3/30	62	20.5	16.0	19.0*
Bitterroot River							
13C16	Ambrose	6475	3/26	45	15.2	11.0	-
13D1	East Fork R. S.	5400	4/2	20	6.6	4.7	7.1
13D2	Gibbons Pass	7100	3/29	69	22.5	18.6	25.4
14D3	Kit Carson	4700	3/29	28	7.8	5.7	9.0
14C5	Lolo Pass	5230	3/27	100	39.0	31.4	36.7*
14C7	Lost Horse	5940	3/28	91	33.4	32.6	-
13D16	Moose Creek	6200	3/27	45	14.6	11.8	18.3
14D2	Nez Perce Camp	5580	3/29	48	15.8	10.9	15.5
14D1	Nez Perce Pass	6575	3/29	52	17.3	11.7	19.7
14C6	Powell R. S.	4230	3/27	38	14.1	10.2	14.0*
14C4	Savage Pass	6600	3/27	79	28.4	24.7	30.3*
14C8	Twin Lakes	6510	3/28	120	44.6	40.4	-

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1962

Snow Courses			Current Data			Past Record	
No.	Name	Elevation	Date of Survey	Snow Depth	Water Content	Water Content	
						Last Year	Average
Clark Fork River							
12C13	Black Pine	7100	3/27	44	13.6	10.1	-
12B10	Copper Creek	5700	3/21	53	16.8	-	-
12B11	Cutter Mine	6350	3/21	56	18.4	-	-
12B10	Coyote Hill	4500	3/28	39	13.0	6.5	10.6*
12C9	El Dorado Mine	7500	3/26	66	22.6	15.0	22.7*
12C2	Fish Lake Airstrip	5000	3/30	103	40.4	39.3	42.6*
12C11	Fred Burr Pass	8000	3/29	83	24.7	20.0	21.0*
12B10	Freezeout Summit	6800	Discontinued			36.9	36.5
12C10	Gold Creek Lake	7200	3/26	53	16.6	11.5	17.2*
12G1	Meadow Creek	6200	4/2	131	50.7	51.8	52.2
12G4	Interpeard	6450	4/2	38	10.4	6.6	7.9*
12B2	Lookout	5250	3/27	122	42.8	37.3	39.0*
12G6	Lumberman Forest #6	4020	3/21	19	6.4	0	2.5*
12C12	Red Lion	7000	3/29	64	16.8	12.0	18.0*
12C3	Skalkaho Summit	7250	3/27	75	26.6	23.3	27.1
12C2	Stride Road Mountain	7100	3/28	54	16.7	11.0	15.9
12G5	Southern Cross	5300	4/2	30	9.5	5.0	5.9*
12C7	Storm Lake	7780	3/29	57	15.7	11.2	13.6
12C	Stuart Mill	6500	4/2	20	9.0	4.8	6.9*
12C1	Stuart Mountain	7400	3/21	84	32.5	-	32.8
12H1	Ty Mountain	4800	3/30	62	20.5	15.0	19.0*
Bitterroot River							
12C16	Ambrose	6475	3/26	45	15.2	11.0	-
12B1	East Fork R. G.	5400	4/2	20	6.0	4.7	7.3
12E2	Hibboen Pass	7200	3/29	69	22.5	18.6	23.4
12D3	Kit Carson	4700	3/29	28	7.8	5.7	9.0
12E5	Lolo Pass	5230	3/27	100	39.0	31.4	36.7*
12C7	Lost Horse	5840	3/28	91	33.4	32.6	-
12B16	Moose Creek	6870	3/27	45	14.6	11.8	18.3*
12D2	Nez Perce Camp	5560	3/29	44	15.8	10.9	15.5
12D1	Nez Perce Pass	6515	3/29	52	17.3	11.7	15.7
12C6	Powell R. S.	4250	3/27	38	14.3	10.2	14.0*
12C4	Saddle Lake	6400	3/27	70	26.2	24.7	20.3*
12D7	Twin Lakes	6315	3/24	120	44.2	40.4	-

*Adjusted average. ALL AVERAGES BASED ON 1955-1971 (14 YEAR PERIOD).

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
	MISSOURI RIVER BASIN						
Beaverhead River							
13B10	Bloody Dick	7600	3/28	43	11.3	9.4	12.1*
13D9	Gold Stone	8100	3/28	56	15.2	10.0	15.8*
11E11	Blue Ledge Mine	6700	3/30	62	22.5	14.1	17.3
12E3	Camp Creek	6800	3/28	41	12.1	6.1	10.4
11E12	Kilgore	6200	3/30	44	14.8	9.5	10.3
11E4	Lakeview Canyon	6930	3/27	55	14.3	9.6	11.3*
11E3	Lakeview Ridge	7400	3/27	50	12.2	7.6	10.1*
13E1	Lemhi Pass	7480	3/22	31	7.4	6.5	9.6*
12E2	Limekiln	6950	3/21	0	0	0	1.4*
13D11	Selway Junction	6800	Discontinued			6.9	9.1*
13D12	Terrell Creek	6650	Discontinued			3.2	4.8*
13E2	Trail Creek	7090	3/22	32	7.7	6.2	9.1*
12E1	White Pine Ridge	8850	3/21	24	5.6	4.2	6.2*
Big Hole River							
13D14	Anderson Meadow	7000	3/29	29	7.0	4.5	8.4*
13D4	Below Big Hole Pass	6900	3/26	46	13.2	8.7	14.7*
13D3	Big Hole Pass	7240	3/26	50	15.8	10.4	17.4*
13D5	East Boundary	6700	3/26	29	7.8	3.8	8.5*
13D15	Elk Horn	8450	3/27	40	11.0	6.4	10.7
13D8	Jahnke Creek	7340	3/28	36	8.4	6.7	11.7*
13D6	Miner Forks	7300	3/27	44	13.1	9.4	13.2*
13D7	Miner Lake	6720	3/27	35	8.6	5.9	9.1*
13D13	Wise River	6300	3/29	20	5.2	2.7	5.6*
Jefferson River							
12C7	Berry Meadow	7300	3/30	35	9.0	-	-
12C6	Picnic Grounds	6500	4/2	23	6.0	2.0	5.3*
12D1	Pipestone Pass	7200	3/23	29	6.9	4.9	6.0

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1968

Snow Course			Course Data			Last Survey	
No.	Name	Elevation	Date of Survey	Snow Depth	Water Equivalent	Last Year	Average

MISSOURI RIVER BASIN

Yellowstone River

1,000	Cloudy Dick	7600	4/20	43	23.3	9.0	12.1*
1,100	Gold Butte	7200	4/22	75	25.5	10.0	15.3*
1,171	Bliss Ledge Mine	6900	4/20	40	23.5	14.2	17.5
1,172	Tower Creek	6800	4/25	43	12.4	6.3	10.2
1,172.5	Kilgore	6500	4/20	44	14.8	6.2	10.3
1,173	Yellowtail Reservoir	6400	4/27	33	14.3	7.8	12.7*
1,175	Yellowtail Ridge	7100	4/27	30	12.2	7.6	10.1*
1,181	Lodge Trail	7400	4/22	37	9.4	4.9	9.0*
1,224	Lightning	6300	4/27	0	0	0	1.4*
1,2011	Sodium Production	6700	Discontinued			0.9	8.2*
1,1021	Tornado Creek	6400	Discontinued			3.2	4.8*
1,172	Tepee Creek	7000	4/25	35	7.7	4.2	9.1*
1,161	Valley View Ridge	6900	4/21	22	3.9	1.2	6.2*

Big Horn River

1,001	Anderson Meadow	7000	4/20	50	7.0	4.2	8.2*
1,004	Dalton Gap Ridge Trail	6500	4/24	0	12.2	8.7	14.2*
1,007	Big Horn Park	7240	4/24	50	18.4	20.4	17.8*
1,009	Tower Junction	6600	4/24	29	7.4	3.8	8.2*
1,015	Elk Horn	6400	4/27	40	11.0	9.4	10.7
1,024	Lodge Creek	7000	4/24	36	8.4	6.7	11.2*
1,026	Minor Ferry	6400	4/27	44	12.1	7.4	13.4*
1,027	Minor Lake	6700	4/27	38	8.0	5.7	9.3*
1,027.2	Nine Mile	6500	4/24	20	4.2	4.7	5.0*

Jefferson River

1,027	Torrey Meadow	7000	4/20	25	5.0	—	—
1,028	Fishing Cascade	6100	4/2	33	9.0	2.0	5.4*
1,031	Tidewater Town	7600	4/20	31	4.9	4.5	6.0

*Data not measured prior to 1967-1968 for stations. *Average unknown

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
Madison River							
11E9	Big Springs	6500	3/30	69	25.6	19.8	23.6
11D7	Call Road	8050	3/19	44	13.1	-	-
11D6	Crockett Lake	8400	3/19	45	13.5	-	-
11E5	Hebgen Dam	6550	3/30	39	11.2	9.7	12.6
11E10	Island Park	6315	3/29	62	20.3	15.0	17.8
11D5	Jack Creek	7600	3/20	28	7.2	3.6	-
10E2	Norris Basin	7500	3/31	42	12.4	8.7	10.3*
11D3	North Meadow	7500	3/20	38	10.6	9.5	-
11E8	Valley View	6500	3/30	58	19.4	13.4	16.4
11E7	West Yellowstone	6700	3/30	37	11.0	9.3	12.7
Gallatin River							
10D4	Devil's Slide	8100	3/31	80	25.4	17.1	21.2
10D3	Hood Meadow	6600	3/31	38	11.4	7.6	9.8
10D1	New World	6700	3/24	40	9.6	9.3	10.9
11E6	Twenty-One Mile	7150	3/30	57	17.8	14.8	19.2
Missouri River (Main Stem)							
12C5	Chessman Reservoir	6200	3/28	25	5.0	1.2	5.1
9C1	Crystal Lake	6100	3/29	45	13.4	4.7	11.8
10C2	Grasshopper	7000	3/28	28	7.2	1.6	5.6
10C1	Kings Hill	7950	3/26	46	13.5	9.1	13.8
9A1	Rocky Boy	5200	4/2	14	4.4	0	5.2
12C1	Stemple Pass	6900	3/27	40	10.2	6.8	11.0
12C2	Tenmile, Lower	6250	3/26	29	8.0	4.3	7.1
12C3	Tenmile, Middle	6800	3/25	42	11.0	7.5	11.3
12C4	Tenmile, Upper	8000	3/25	47	14.0	9.5	14.4
Sun-Teton-Marias Rivers							
12B8	Bench Mark	5500	No measurement			6.6	10.0*
12B6	Cabin Creek	5400	3/29	28	7.0	4.5	7.1*
12B9	Five-Bull	5600	No measurement			3.2	7.5*
12A1	Freight Creek	6000	3/22	42	14.4	13.9	17.4*
12B5	Gates Park	5300	3/29	35	10.6	8.3	11.0*
12B7	Goat Mountain	7000	3/31	40	12.1	9.4	12.4
12B2	Waldron Creek	5600	3/22	18	6.3	3.2	7.7*
12B1	West Fork	6000	No measurement			9.3	17.7*
12B4	Wrong Creek	5700	3/29	44	14.6	14.7	16.2*
12B3	Wrong Ridge	6800	3/29	58	18.4	19.5	23.1*

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

As of April 1, 1962

Station	Name	Elevation	Date of Survey	Snow Depth	Water Content	Water Content	Last Year	Average
Columbia Basin								
1179	Big Hedges	6300	3/30	65	24.6	19.8	23.6	
1177	Gold Lake	6000	3/19	44	13.1	-	-	
1176	Cranberry Lake	5400	3/19	45	13.4	-	-	
1175	Hodgson Ice	5200	3/30	30	11.2	8.7	16.6	
1180	Island Lake	[illegible]	3/29	62	20.3	16.0	17.8	
1181	Dock Creek	7000	3/20	20	7.2	3.6	-	
1182	Morris Basin	6300	3/22	42	12.4	8.7	20.4	
[illegible]	Morris Meadow	5900	3/22	38	10.6	5.3	-	
1183	Vision View	6000	3/20	58	22.4	13.4	16.4	
1187	West Fallowtown	7000	3/20	37	14.0	9.3	32.7	
Gallatin River								
1184	Devil's Slide	5100	3/21	40	9.4	12.2	27.2	
1185	Swan Meadow	7400	3/21	36	12.4	7.6	9.8	
1186	Big Sandy	6700	3/24	40	9.6	6.3	10.5	
1188	Twenty-One Mile	7400	3/30	57	17.8	14.2	19.2	
Madison River (with Gallatin)								
1189	Cameron Creek	5800	3/22	25	3.8	1.2	2.7	
1190	Hebgen Lake	6300	3/29	43	12.4	4.7	10.6	
1191	[illegible]	7000	3/23	58	9.2	1.8	5.2	
1192	Kirby Mill	7100	4/26	[illegible]	12.2	6.2	6.4	
1193	[illegible]	[illegible]	[illegible]	14	4.1	0	5.4	
1194	[illegible]	7000	3/27	46	18.5	4.4	14.7	
1195	[illegible] Lower	6200	3/29	25	8.0	4.1	7.2	
1196	[illegible] Middle	6700	3/22	42	11.0	7.2	14.2	
1197	[illegible] Upper	8000	3/23	47	14.0	7.2	14.2	
Snake River (Madison Basin)								
1198	Bacon Ranch	6800	No measurement			4.4	10.0	
1199	Island Park	6100	3/23	23	7.0	4.3	6.2	
1200	Pine-Tree	[illegible]	No measurement			2.2	7.5	
1201	Freeman Creek	6500	3/22	45	14.4	4.7	17.8	
1202	Cedar Park	5300	3/23	30	10.8	8.3	13.8	
1203	Deer Meadow	7000	3/23	40	11.1	5.4	15.4	
1204	Mallard Creek	7000	3/22	38	5.3	2.2	9.4	
1205	West Jim	8000	No measurement			5.3	27.7	
1206	Moose Creek	7300	3/23	44	14.0	14.7	24.2	
1207	Moose Ridge	8400	3/27	38	14.4	19.3	35.4	

Note: An asterisk (*) indicates no information available. "Average" column

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
Saskatchewan (Bow) River							
Alb. 1	Bow River	5100	3/28	33	8.1	8.8	8.7
Alb. 2	North Course	5400	3/28	31	7.8	9.3	8.9
Alb. 3	Pipestone River	5100	3/28	27	7.2	7.5	6.6
Alb. 5	Lake Louise	5800	3/27	33	9.3	11.8	11.2
Alb. 6	Mirror Lake	6600	3/27	40	11.0	13.1	12.5
Alb. 8	Miscl. Lake Louise	5700	3/27	42	10.4	12.2	11.1
Alb. 9	Forty Mile Creek	5500	3/29	37	9.8	7.8	7.5
Upper Yellowstone River							
10C5	Bald Ridge	7500	3/27	41	12.6	8.4	-
9D1	Camp Senia	7890	3/30	49	9.3	2.7	7.3
10E3	Canyon	7750	4/1	61	19.4	13.3	16.0
10D7	Cooke City	7400	3/31	35	9.3	7.4	9.5
10D5	Crevice Mountain	8400	3/30	41	12.1	5.6	10.5
9D3	Gertrude Lake	9250	3/30	73	17.8	8.0	-
9D5	Grizzly Peak	8400	3/29	89	23.6	8.2	-
10D6	Independence	8000	3/26	59	19.8	15.2	18.4*
10E4	Lake Camp	7850	3/31	53	14.4	8.6	12.1*
9E1	Lodgepole	8200	3/28	45	11.1	7.4	13.1*
10E1	Lupine Creek	7300	4/1	46	12.6	8.9	11.6*
10D12	Monument Peak	9000	3/26	78	27.6	21.2	-
10C3	Porcupine	6500	3/27	31	7.8	4.8	7.1
10D10	Sacajawea	6550	3/23	44	13.2	10.0	-
10E7	Thumb Divide	7900	4/1	82	29.0	16.1	25.4*
9D4	Timberline Creek	8850	3/30	77	18.8	9.2	-
9D2	West Rosebud	7500	No report			0	-
Wind River							
9F12	Big Warm	8800	3/28	44	12.0	5.8	10.1*
9F4	Burroughs Creek	8800	3/30	51	15.6	8.8	16.9*
9F10	Dinwoodie	10000	3/31	52	13.5	8.6	13.2*
9F17A	Dinwoodie Glaciers	10500	3/30	58	16.0E	8.5E	-
9F9	Dry Creek	9500	3/31	34	8.4	5.5	7.1*
9F6	Du Noir	8750	3/28	43	11.3	3.4	10.1
9F7	Geyser Creek	8500	3/29	35	9.1	4.0	9.4*
9F8	Little Warm	9500	3/29	69	21.5	12.5	18.3*
9F14	Sheridan R. S. #2	7500	3/28	33	8.4	3.9	9.4*
9F3	T-Cross Ranch	8000	3/30	26	6.0	4.0	8.1
10F9M	Togwotee Pass	9600	3/31	89	33.4	24.0	32.1

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1962

No.	Name	Elevation	Date of Survey	Snow Depth	Water Equivalent	Last Year	Average
	Susitna River						
A1a. 1	Bow River	1130	3/29	32	8.1	8.6	7.7
A1b. 2	Kroth Cabin	2400	3/28	31	7.5	7.2	8.5
A1c. 3	Fishtrap River	3100	3/28	22	7.4	7.5	6.6
A1d. 5	Lake Louise	2200	3/27	35	9.1	12.5	11.2
A1e. 6	Mirror Lake	2400	3/27	46	11.8	9.1	12.5
A1f. 8	Upper Lake Louise	2400	3/27	42	10.4	12.3	11.4
A1g. 9	Tony Mile Creek	3300	3/27	37	8.8	7.8	7.8
	Upper Yellowstone River						
1Ba	Bear Slide	7200	3/27	41	12.6	8.4	-
1Bb	Grizzly Bear	7300	3/30	45	9.3	3.7	7.3
1Bc	Cayuse	7700	4/1	60	19.4	23.3	20.2
1Bd	Cache Creek	7600	3/31	35	9.2	7.4	6.3
1Be	Cascade Meadows	8,200	3/30	45	12.2	5.8	10.2
1Bf	Cascade Lake	8200	3/30	73	17.8	8.5	-
1Bg	Grizzly Peak	8100	3/29	80	25.6	8.2	-
1Bh	Sevenmile Lake	8000	3/28	88	19.8	14.2	18.4
1Bia	Lava Creek	7800	3/29	45	9.4	8.0	8.7
1Bj	Ledgepole	7000	3/28	43	11.4	7.4	8.4
1Bk	Lupine Creek	7,300	4/1	45	12.6	4.9	12.0
1Bl/2	Mammoth Park	7,600	3/28	78	20.5	21.2	-
1Bm	Tomahawk	8,000	3/27	34	8.8	6.6	7.1
1Bn/o	Arrowhead	7,700	3/29	44	10.2	13.0	-
1Bp/r	Upper Sportman	7,600	-	82	24.0	24.4	25.2
1Bs	Tumbledown Creek	8400	3/30	77	20.5	9.2	-
1Bt	Water Ranch	7500	30 inches			0	-
	Wind River						
1C/2a	Big Sand	8000	3/28	14	3.0	4.8	10.4
1C/2b	Dinwoodie Creek	8000	3/30	25	7.4	8.3	10.4
1C/2c	Dinwoodie	8,000	3/30	32	7.4	8.4	12.2
1C/2d	Dinwoodie Discovery	10,000	3/31	34	12.0	8.3	8.3
1C/3a	Dry Creek	8,500	3/30	44	8.4	4.2	7.1
1C/3b	Dry Ski	8500	3/30	43	11.3	5.4	10.3
1C/4	Upper Frost	8,000	3/29	30	9.2	4.0	8.0
1C/5	Little Wind	8000	3/30	49	14.5	4.2	12.3
1C/6a	Bonneville Ski Jump	7500	3/30	23	5.8	2.9	3.4
1C/7	Torrey Lake	9100	3/31	28	6.0	4.0	8.2
1C/8a	Torrey Lake	9400	3/31	27	5.0	2.0	3.2

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
Popo Agie River							
8G2	Blue Ridge	9500	3/24	56	13.9	7.9	13.7
8G5	Bruce's Camp	6500	3/24	6	2.2	4.4	5.5*
9G3	Hobbs Park	10000	4/2	64	20.5	15.1	20.1*
9G4	Mosquito Park	9500	4/2	38	9.2	6.8	9.1*
8G1	Sawmill Glade	8500	3/24	43	10.2	7.1	8.6
8G3M	South Pass	9000	3/24	59	16.9	8.7	16.4
9F11	St. Lawrence R. S.	9000	4/1	37	9.7	5.6	7.8*
9G2	Trout Creek	8400	4/2	27	7.5	7.6	6.7*
9G7A	Twenty Lakes	10500	3/30	49	12.5E	-	-
Big Horn River							
7E31	Five-Springs Falls	7500	3/30	23	6.0	5.4	5.7*
9F19A	Kirwin	11000	Report delayed			5.5E	-
8E30	Medicine Wheel	9000	3/25	52	16.1	14.3	15.7*
8F1	Owl Creek	8700	3/31	31	7.9	7.6	7.3*
9E3	Timber Creek	8800	3/30	24	5.6	3.7	4.8*
9F15	Wood River #2	8000	3/30	34	8.5	6.6	5.6*
Shoshone River							
9E4M	Carter Mountain	7800	3/29	32	8.2	5.3	4.8*
10E6	East Entrance	7000	3/31	35	9.7	6.8	11.9*
10E5	Sylvan Pass	7100	3/30	45	10.9	11.2	15.9
9F18A	Younts Peak	8500	Report delayed			10. E	-
Nowood Creek							
7E25	Cold Springs Camp	8700	3/27	33	7.0	6.5	7.3*
7E24M	Medicine Lodge Lakes	9500	3/27	48	11.8	10.4	11.3*
7E27M	Onion Gulch	8100	4/1	51	13.5	7.2	8.7*
7E26	West Tensleep Lake	9075	3/26	56	15.3	9.9	11.1*
7E35	Tyrell R. S.	8300	3/26	40	10.2	8.1	7.5*
Shell Creek							
7E21M	Bald Mountain	9600	3/24	74	24.7	18.8	19.8*
7E17	Granite Pass	8950	3/26	61	19.0	12.2	15.7*
7E4	Ranger Creek	8800	3/28	44	10.9	7.8	9.1*
7E23	Shell Creek	9600	3/28	66	17.2	11.9	14.3*

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1962

Site Number	Name	Elevation	Date of Survey	Snow Depth	Water Content	Last Year	Average
	Lower Salmon River						
2B2	Lions Bluff	9,000	3/24	40	13.0	7.7	12.9
2C3	Dennis's Camp	4,000	3/24	8	2.0	4.4	5.1*
2C2	Hoodoo Park	10,000	4/2	62	20.5	13.1	20.1*
2C4	Monumental Park	6,000	4/2	38	0.2	6.8	9.1*
2E1	Cornwall Glade	8,000	3/24	45	10.2	7.2	8.6
2E3W	Soule Creek	6,000	3/24	29	16.9	5.7	14.4
2F1A	Mt. Lawrence R. S.	7,000	4/1	31	0.2	5.4	7.2*
2G2	Tenmile Creek	6,000	4/2	27	7.3	7.4	8.7*
2F2A	Sawtooth Lake	5,000	3/30	37	14.7		-
Big Lost River							
3F1E	Pine-Sawtooth Lodge	7,000	3/30	23	6.0	5.4	5.7*
3F2A	Stanley	4,000	Report Delayed			5.2	-
3G3W	Washington Wheel	9,000	4/23	35	14.3	14.3	15.7*
3H1	Oak Creek	8,000	3/31	31	7.5	7.5	7.2*
3G1	Fisher Creek	9,000	3/30	24	5.8	3.7	4.4*
3F1C	Wood River #2	8,000	3/30	34	8.5	6.6	5.6*
Boise River							
4E2C	Cartier Meadows	7,000	3/28	32	8.3	5.3	4.8*
4D2	Deer Springs	6,000	3/31	35	9.7	6.8	11.9*
4D3	Crown Lake	7,000	3/30	19	10.0	11.3	13.0
4C1A	Yankee Fork	5,000	Report Delayed			10.	-
Payette River							
7E2W	Cache Cr/Lake Creek	8,000	3/27	33	7.0	8.5	4.3*
7E1W	Warlodge Lodge Trees	8,000	-	43	12.8	10.7	11.3*
7D1A	Brown Patch	8,000	-	51	13.3	7.1	6.7*
7C3W	West Pinehurst Lake	5,000	3/28	35	16.3	9.9	12.3*
7E3C	Tyrell C. S.	8,000	-	40	10.2	6.4	7.2*
Weiser River							
7E2W	Mild Meadows	7,000	3/28	34	14.7	14.8	19.4*
7E1V	Brassie Lake	8,000	3/28	41	19.0	16.2	14.0*
7A1	Burger Creek	5,000	3/28	24	10.0	7.3	9.1*
7E3S	Shell Creek	9,000	3/29	44	17.3	11.9	14.3*

* Data average based on less than 15 years of record. "Average" Period

SNOW SURVEY DATA

AS OF APRIL 1, 1962

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
Tongue River							
7E20	Beaver-Tongue	9200	3/24	70	22.1	16.8	18.4*
7E32M	Big Goose #2	7700	3/30	43	10.8	7.6	7.6*
7E18A	Bone Springs Divide	9200	3/26	66	20.7	13.4	16.2*
7E33	Burgess R. S. #2	7900	3/25	30	7.9	6.4	7.6*
7E34A	Dome Lake #2	8800	3/29	53	13.5	9.1	8.6*
7E14	Gloom Creek	9300	3/27	51	16.3	12.2	13.1*
7E11	Sibley Lake	8000	3/28	47	11.0	9.3	9.7*
7E10	Steam Boat Point	7500	3/28	39	9.3	7.3	7.7*
7E12A	Sucker Creek	9000	3/27	47	14.1	11.2	11.9*
7E13	Wood Rock G. S.	8500	3/26	43	12.9	8.5	10.4*
Powder River							
7F1	Bear Trap	8000	4/2	46	11.8	6.8	-
7F2	Canyon Creek	7400	4/3	52	14.0	12.3	-
7E36A	Clouds Peak	10000	3/30	62	19.0E	12.0E	-
6E2	Muddy Creek G. S.	7800	4/1	19	5.2	4.4	4.2*
7E8	Munkres Pass	9700	4/1	47	13.7	7.5	9.3*
7E5	Soldier Park	8700	3/31	31	7.4	5.4	5.5*
7E6	Sour Dough	8500	3/31	37	10.0	6.8	7.3

NOTE: ALL AVERAGES BASED ON 1943-1957 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

As of April 1, 1962

Snow Course			County Data			Past Record		
No.	Name	Elevation	Date of Survey	Snow Depth	Water Content	Water Content	Last Year	Average
Tuolumne Basin								
7230	Beaver-Tuolumne	9200	3/24	70	22.1	16.8		12.4*
7230	Big Meadow #2	7700	3/30	43	10.8	7.6		7.1*
7234	Dana Meadows Bridge	9200	3/26	66	20.7	13.4		14.4*
7231	Burgess R. S. #2	7900	3/22	36	7.9	6.4		7.0*
7234A	Dana Lake #2	8800	3/29	53	13.5	9.1		8.6*
7234	Gibson Creek	9700	3/27	51	16.3	12.2		11.1*
7211	Gilmoy Lake	8000	3/25	47	11.0	9.3		9.7*
7210	Green Rock Point	7900	3/25	39	9.3	7.3		7.7*
7212A	Gaches Creek	9000	3/27	47	11.1	11.2		11.7*
7213	West Rock G. S.	8500	3/26	43	12.9	8.5		10.4*
Kaweah Basin								
7271	Bear Trap	8000	4/2	46	11.9	6.5		—
7273	Cedar Creek	7400	4/5	52	14.0	12.3		—
7274A	Elkins Peak	10000	3/30	63	19.5	12.0		—
5E2	Emerald Creek G. S.	7800	4/1	19	5.2	4.4		4.2*
7E8	Hamilton Pass	9700	4/2	47	13.7	7.5		9.3*
7E5	Mineral Fork	8700	3/31	21	7.4	5.4		5.5*
7E4	Quartz Mesa	8400	3/31	37	10.0	6.9		7.3

*Data: Mt. Avalanche Basin on Kaweah River (Feb.) *Average Average

RESERVOIR STORAGE
as of
March 31, 1962

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE - 1000 A.F. 1962	1961	1943-57 Average
MISSOURI RIVER BASIN - WYOMING					
Wind	Bull Lake	152.0	78.0	58.3	60.1
	Pilot Butte	31.6	23.7	24.7	18.2
	Boysen	560.0AC	137.9	106.3	199.5**
Owl Creek	Anchor	16.5	0.1	0.0	-
Shoshone	Buffalo Bill	440.0	127.9	135.2	220.6
Belle Fourche	Key Hole	190.0AC	9.5	2.7	10.3**
MISSOURI RIVER BASIN - NORTH DAKOTA					
Missouri	Garrison	18,100.0AC	3,639.7	4,741.9	-
Heart	E.A. Patterson	5.6AC	3.0	4.1	5.6**
	Lake Tschida	68.7AC	39.3	49.7	68.2**
James	Jamestown	20.0AC	13.0	15.9	-
MISSOURI RIVER BASIN - SOUTH DAKOTA					
Missouri	Oahe	17,000.0AC	5,419.0T	2,726.0T	-
	Fort Randall	3,800.0AC	2,544.0	2,607.0	2,283.3**
	Gavins Point	320.0AC	338.0	259.1	-
Grand	Shadehill	84.0AC	35.0	51.3	81.8**
Cheyenne	Angostura	90.0AC	18.2	6.5	46.7**
	Deerfield	15.1AC	4.1	2.8	12.0**
	Pactola	55.0AC	3.9	16.4	-
Belle Fourche	Belle Fourche	185.2AC	58.2	37.6	116.9

** Average for period of record.
AC Active Capacity, USBR, Billings.
T Total storage.

RESERVOIR STORAGE
as of
March 31, 1962

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE - 1000 A.F. 1962	1961	1943-57 Average
COLUMBIA RIVER BASIN - MONTANA					
Flathead	Hungry Horse	3,428.0	2,200.0	2,763.0	2,177.0**
	Flathead Lake	1,791.0	598.3	1,043.0	628.8
	Camas 1/	45.2	29.9	27.2	26.5
	Mission Valley 2/	100.3	26.9	33.9	38.6
Clark Fork	Georgetown Lake	31.0	20.9	22.6	21.6
Bitterroot	Como Lake	34.8	15.6	-	12.4
MISSOURI RIVER BASIN - MONTANA					
Beaverhead	Lima	84.0	17.8	13.1	33.9
Ruby	Ruby	38.8	28.7	27.1	26.5**
Madison	Hebgen Lake	345.0	110.8	152.1	208.3
	Ennis Lake	41.0	39.1	37.9	35.3
Gallatin	Middle Creek	8.0	2.7	3.8	4.1**
Missouri	Canyon Ferry	2,043.0	1,217.0	1,506.0	1,585.0**
	Hauser & Helena	61.9	58.4	55.1	44.3
	Lake Helena	10.4	9.2	8.1	5.5**
	Holter Lake	81.9	81.0	11.3	54.3
	Ackley Lake	5.8		-	4.2
	Durand	7.0	1.9	4.3	5.3
	Martinsdale	23.1	2.1	4.0	10.2
	Fort Peck	19,410.0	8,143.0	11,180.0	11,606.0
Sun-Teton	Gibson	105.0	41.0	38.6	66.4
	Willow Creek	32.3	11.0	19.9	20.2
	Pishkun	32.0	16.7	16.7	18.6
Marias	Lower Two Medicine	16.6		0	0
	Four Horns	19.2		14.6	8.7
	Tiber	1,316.0	625.4	644.9	653.8**
	Swift	30.0	18.3	15.8	24.7
	Lake Francis	112.0	78.2	78.6	96.0
Milk	Fresno	127.2	37.8	34.1	85.6
	Nelson	66.8	15.4	39.6	33.7
	Lake Sherburne	66.1	20.0	22.1	22.7
Yellowstone	Mystic Lake	20.8	4.4	5.1	5.7
	Tongue River	68.0	47.3	21.6	18.1
	Cooney	27.5	15.2	-	12.7

1/ Sum of four small reservoirs on west side of Flathead Lake.
2/ Sum of eight small reservoirs in Mission Valley not including Jocko Lake.
** Average for period of record.

MEASURED STORAGE
as of
March 31, 1962

BASIN	RESERVOIR	MEASURED CAPACITY	MEASURED STORAGE - 1000 A.F. 1958	1961	1961-62 average
COLUMBIA RIVER BASIN - MONTANA					
Flathead	Hungry Horse	3,121.0	2,200.0	2,763.0	2,177.0**
	Flathead Lake	1,791.0	944.1	1,043.0	628.8
	Tenas 1/	12.5	27.9	27.2	24.7
	Middle Valley 2/	1043.3	24.9	12.9	18.6
Clark Fork	Georgetown Lake	31.0	20.7	22.6	22.4
Bitterroot	Como Lake	31.7	15.6	-	12.4
MISSOURI RIVER BASIN - MONTANA					
Sweetgrass	Tiber	84.0	74.5	17.1	23.9
Musselshell	Martinsdale	36.5	28.7	27.1	20.2**
Madison	Hebgen Lake	345.0	1010.4	1051.1	2058.3
	Ennis Lake	11.0	34.3	27.2	27.4
Gallatin	Spire Creek	8.0	2.7	3.9	4.1**
Missouri	Canyon Ferry	2,043.0	1,417.0	1,320.0	1,322.0**
	Hauser & Holter	21.9	18.1	55.1	44.3
	Lake Helena	10.4	7.2	8.1	5.5**
	Tongue Creek	81.9	81.0	11.7	24.3
	Hungry Horse	2.5		-	4.2
	Tongue	7.0	1.7	4.1	3.3
	Martinsdale	23.1	5.1	1.0	10.2
	Fort Peck	19,410.0	8,143.0	7,150.0	11,6[illegible].0
Cow-Clark	Flathead	106.0	12.0	32.8	56.4
	Bitter Root	72.3	12.0	19.9	20.4
	Tongue	32.0	16.7	16.7	14.8
Marias	Lower Two Medicine	16.5		0	0
	Four Horns	16.2		11.4	8.7
	Tiber	1,216.0	645.4	644.5	821.0**
	Sherry	20.0	13.1	13.8	14.7
	Lake Frances	114.0	78.2	78.6	90.0
Milk	Nelson	127.5	57.8	34.1	83.5
	Sherard	14.2	15.4	14.5	13.[illegible]
	Lake Sherwood	50.1	40.0	32.1	32.7
Yellowstone	Cowley Lake	24.6	4.4	3.2	3.7
	Pompeys Pillar	44.0	47.3	21.6	24.2
	Cooney	47.3	12.3	-	27.7

1/ Data on Four Seasons reservoirs on area plan of Flathead Lake.
2/ Data of eight small reservoirs in Missouri Valley not including Canyon Lake.
** Average for period of record.

Agencies Cooperating in Collecting Data Contained in this Bulletin

U. S. Forest Service
Region I, Missoula, Montana

U. S. Geological Survey
Helena, Montana

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Omaha, Nebraska
Riverdale, N. D.

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana

U. S. Fish & Wildlife Service
Red Rock Lakes Refuge
Monida, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

Montana Power Company
Butte, Montana

Agricultural Experiment Station
North Montana Branch Station
Havre, Montana

Montana State Highway Dept.
East Glacier, Montana

National Park Service
Yellowstone National Park
Glacier National Park

Montana Experiment Station
Montana State College
Bozeman, Montana

Bonneville Power Administration
Portland, Oregon

Montana State School of Forestry
Montana State University
Missoula, Montana

Soil Conservation Service
Montana, Wyoming, Idaho

Soil Conservation Districts
Montana Counties

Johnson Flying Service, Inc.
Missoula, Montana

Water Rights Branch
Dept. of Lands & Forests
Victoria, British Columbia

Department of Northern Affairs
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